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# Annual Report 1973-1974

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Department of  
Public Works



City & County of  
San Francisco



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# **ANNUAL REPORT**

**OF THE**

## **DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO**



**JUNE 30, 1974**

□

**JOSEPH L. ALIOTO**  
MAYOR

**THOMAS J. MELLON**  
CHIEF ADMINISTRATIVE OFFICER

**S. MYRON TATARIAN**  
DIRECTOR OF PUBLIC WORKS

□

COMPILED & DESIGNED BY RICHARD G. GLOSENGER, BUREAU OF ENGINEERING

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Cover Photo — *Aerial view of downtown San Francisco, looking east.  
Courtesy of The San Francisco Convention and  
Visitors Bureau.*

**MAYOR**  
JOSEPH L. ALIOTO

**CHIEF  
ADMINISTRATIVE  
OFFICER**  
THOMAS J. MELLON

**DIRECTOR**  
S. MYRON TATARIAN

**DEPARTMENT OF  
PUBLIC WORKS**  
**CITY AND COUNTY OF  
SAN FRANCISCO**  
JUNE 30, 1974  
ORGANIZATION CHART

**ASSISTANT DIRECTOR  
PLANNING AND  
CONTROL**  
JEFFREY LEE

**BUREAU OF  
ENGINEERING**  
CITY ENGINEER AND  
DEPUTY DIRECTOR  
ROBERT C. LEVY

**ASSISTANT  
DIRECTOR  
ADMINISTRATIVE**

**ASSISTANT  
DIRECTOR  
MAINTENANCE  
AND OPERATION**  
KEENO FRASCHINA

**BUREAU OF  
ARCHITECTURE**  
CITY ARCHITECT  
HUGH HIATT

**GENERAL  
OFFICE**

**BUREAU OF WATER  
POLLUTION  
CONTROL**  
SUPERINTENDENT  
JOHN CRAFTS

**BUREAU OF  
BUILDING  
INSPECTION**  
SUPERINTENDENT  
ALFRED GOLDBERG

**BUREAU OF  
ACCOUNTS**  
SUPERVISOR  
LESTER FONG

**BUREAU OF  
STREET REPAIR**  
SUPERINTENDENT  
CHARLES F. McFADDEN

**CENTRAL PERMIT  
BUREAU**  
SUPERVISOR  
CLYDE VOLENS

**PERSONNEL  
ADMINISTRATION**  
SUPERVISOR  
ALBERT C. AMBROSE

**BUREAU OF  
BUILDING  
REPAIR**  
SUPERINTENDENT  
JOHN S. RUTHERFORD

**BUREAU OF  
STREET CLEANING  
AND PLANTING**  
SUPERINTENDENT  
BERNARD M. CROTTY





CITY AND COUNTY OF SAN FRANCISCO  
DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE  
DIRECTOR OF PUBLIC WORKS

October 22, 1974

330 CITY HALL  
SAN FRANCISCO  
CALIFORNIA 94102

Annual Report  
1973-1974

Mr. Thomas J. Mellon  
Chief Administrative Officer  
City and County of San Francisco

Dear Mr. Mellon:

I am pleased to submit herewith the Annual Report of the Department of Public Works for the fiscal year ending June 30, 1974. This report is forwarded in accordance with the provisions of Section 3.501 of the Charter of the City and County of San Francisco.

The Departmental budget totaled some \$38,500,000 which was derived from the following sources - the General Fund, the Special Gas Tax Street Improvement Fund and the Road Fund. The amount actually expended was about \$36,000,000, which did not include large encumbrances being disbursed, but not yet finalized, for capital improvement projects.

In addition to performing the numerous routine functions, the Department was also highly active in several unusual efforts as follows:

- Doing the design work for the construction and reconstruction of 62 unsafe schools in a \$57,000,000 program to have these schools meet the requirements of the Field Act;
- Completing the final details of the Waste Water Management Master Plan and preparing construction contracts for the first stage of its implementation;
- Placing all the building plans and records in the Bureau of Building Inspection and Central Permit Bureau on microfilms to facilitate access to these records by the general public and departmental personnel;
- Preparing for testing of a new street cleaning program in the Richmond District through the use of controlled parking and the increased use of mechanical sweepers hopefully to achieve cleaner streets at a lower cost;
- Developing the Protected Residential Street Program for minimizing or eliminating the impact of through traffic on residential streets;
- Developing the Transit Preferential Streets Program for reducing conflict between transit vehicles and other traffic on heavy transit streets;
- Establishing a review system, including the creations of a Street Utilities Coordinating Committee and a Citizens Advisory Committee for Street Utility Construction, to give all concerned and affected citizens and business groups a more involved part in alleviating congestion and disruption caused by construction in the streets.

During the past year the Department awarded 250 public contracts for construction and services estimated to cost approximately \$28,000,000 worth of work.

Private building activity is continuing at a high pace with 11,281 permits issued for approximately \$203,000,000 worth of construction.

During the year, the Department lost through retirement the able services of Mr. Charles W. Griffith, City Architect, and Mr. R. Brooks Larter, Assistant Director, Administrative.

Once again, the Assistant Directors, the Bureau Heads and the personnel of the Department are to be commended for providing their fine efforts in this period of increasing public involvement and growing demands for service. I also wish to express my sincere thanks to you for your support and understanding in matters affecting the Department.

Very truly yours,

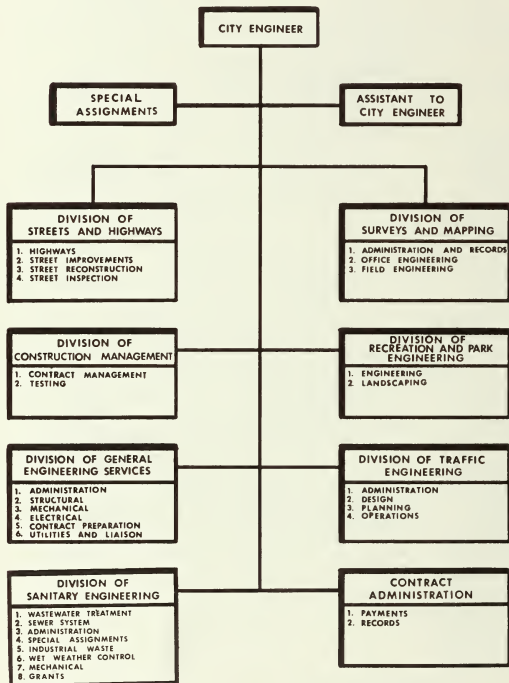
S. M. Tatarian  
Director of Public Works

# ORGANIZATION CHART

## BUREAU OF ENGINEERING

### DEPARTMENT OF PUBLIC WORKS

JUNE 30, 1974



## BUREAU OF ENGINEERING

Robert C. Levy, City Engineer

This fiscal year has been one of continued activity of involvement of citizens and citizen groups in all phases of public works functions. The public today, due to concerns for their environment and ever increasing tax burden, are much more active in the governmental affairs of their city than was true only a short time ago.

This Bureau has seen this trend expand into practically all of our functions. Homeowners' groups, neighborhood improvement groups and other similar organizations are very concerned with traffic patterns, controls, parking, noise and other related matters in their areas. We are working with three neighborhood areas in developing an area-wide protected neighborhood street program. We serve on and provide technical assistance to the Citizens Task Force on Noise Control; to the Citizens Committee for Evaluation of the Master Plan for Wastewater Management and to the Citizens Advisory Committee for Street Utility Construction.

In connection with this trend for citizen involvement, we have changed the concept of our policy in construction from one of straight inspection to see that contracts are built to plans and specifications to one of total construction management of the project. In this regard we have changed the division title to "Construction Management Division." This division now gets involved with a project prior to advertising for bids by reviewing plans and specifications and making suggestions for changes which would eliminate many difficulties that would later turn up in the field. After an award is made on a contract, total responsibility for this contract rests with the Construction Management Division. They act as public relations representatives to the public that would be affected by the construction activities-providing information and alleviating problems that arise day-to-day. They coordinate the activities of all utility companies with the work of the contractor to reduce conflicts and delays. They monitor the noise regulations for construction equipment to enforce compliance with the City's Noise Ordinance. In providing total control and management of each construction project within one division, we find that not only do we have a better hold on the quality of the work performed, but we are able to better respond to the public's complaints and concerns over certain construction activities.

## Outlook for 1974-1975

We would expect to start construction of Stage I of the Master Plan for Wastewater Management which is the Northpoint Crosstown Transport Project described in detail later in this report.

Implementation of the protected residential street program, neighborhood shopping district street beautification program, controlled parking for mechanical street sweeping and transit preferential streets are expected. In addition, a study of and possible implementation of peripheral parking for the City is anticipated.

## SIGNIFICANT ACTIVITIES

### A. TRAFFIC, TRAFFICWAYS AND TRANSPORTATION

#### 1. Transportation Policy Group

The Transportation Policy Group, which was formed in the fall of 1972, consists of the three major departments that have an interest in Transportation Planning: the Department of Public Works, the Public Utilities Commission and the Department of City Planning.

The group consists of the department heads of each of these agencies and one assistant. In the Department of Public Works, the City Engineer is the assistant. It meets monthly and sets transportation policies for the implementation by the respective staffs. This group provides the coordination necessary to insure that there is a unified direction to the development of the transportation system.

Among the problems which the committee studied in depth and furnished guidance were Peripheral Parking, the Route 280-480 connection, Transit First program, including Judah Street, (now under construction) and the St. Francis Circle proposed improvement.

In addition to specific projects, the committee reviews and approves the Federal Aid to Urban Systems program developed by the San Francisco Committee, and is developing a priority system for Capital Improvement budgeting for transportation projects. Also, the TPG keeps abreast of MTC activities, and at times takes a position regarding specific proposals that affect San Francisco.

#### 2. Federal Aid Urban System Program

In the past, the Federal Government, through the Federal Highway Administration, had made monies available to cities and counties under the TOPICS program. San Francisco's share had ranged between \$600,000 and \$650,000. In 1971-72, the Federal Aid Urban Program (FAU) was initiated. In that year, the City's combined TOPICS and FAU monies were approximately \$903,000. Federal participation at that time could reach a maximum of 71% of a project cost. Starting with the 1973-74 fiscal year, TOPICS was phased out in favor of a revised FAU program. The City is eligible for about \$3,500,000 with up to 83% Federal participation in a project cost.

An FAU committee has been established which is comprised of the California State Department of Transportation, the Bay Area Rapid Transit District, the S.F. Municipal Railway, the Department of City Planning, the Golden Gate Bridge Highway and Transportation District, the Alameda-Contra Costa Transit District, the Metropolitan Transportation Commission and this Department. The goal of the committee is to develop a list of projects for a three-year FAU program.

The priorities for determining which projects should be included are based on the following criteria:

A. Transportation System Development

1. Benefit to street system in general.
2. Improvement of transit operations.
3. Accident reduction.
4. Reduction of congestion.

B. State of Readiness: Status of plans, specifications, estimates, environmental impact report, approvals, agreements, and availability of matching funds.

C. Benefits to total transportation and people trips per day.

D. Other considerations: To improve transportation conditions, environmental factors and reflection of City policy.

The type of projects being considered by this department include:

- 1) Upgrading existing signal system.
- 2) Reconstruction and resurfacing of streets.
- 3) Grade separations.
- 4) Slope stabilization.
- 5) Transit Preferential Street Projects.

The following projects have been submitted to the Federal Highway Administration as part of the Department of Public Works' first year program:

San Jose Avenue Slope Stabilization.  
Geneva Avenue and Interstate 280 Ramp Signals.  
Mission Street Resurfacing.  
Sansome Street Rock Wall.  
Third Street Bridge Reconstruction.

### 3. Gas Tax Revenues

As reported in previous annual reports, the City's annual street maintenance program of minor street repairs, traffic signal maintenance and operations, street tree maintenance, street cleaning, sewer repair and street lighting energy, all of which are financed from gas taxes, continues to increase in cost due to inflation and added units of work. For the 1974-75 Fiscal Year, the street maintenance program is budgeted at \$14.8 million as compared with the estimated gas tax revenue of \$8.6 million. The difference is supported by the local Fines and Forfeitures Fund of \$4,000,000 and annual interest.

This leaves little or nothing from current year revenues for such items as new traffic signals, pavement reconstruction, street improvements or other street items considered as capital improvements. Any of this type project must depend on prior year surpluses, the magnitude of which varies from year to year. To best utilize these available funds, our emphasis has been directed to safety projects such as traffic signals, channelizations and improvements in street lighting and to maintenance projects such as pavement resurfacing.

If the FAU program as reported above develops as planned, part of major street projects would be financed through that program. If that program is delayed by red tape and other problems and if gas tax revenues continue to decline due to the energy crisis, San Francisco is going to have to search for other sources of revenue just to keep its street system from further deterioration.

### 4. Transit Preferential Streets

The Department of Public Works, in conjunction with the Department of City Planning and the Municipal Railway, has developed a plan to minimize conflict between transit vehicles and other traffic on certain heavy transit streets. This plan, the Transit Preferential Streets Program, is designed to increase transit speed and promote reliable transit service.

Only streets with significant transit use are included in the program. In the initial phase of the program, exclusive transit lanes will be installed on Post and Sutter Streets. On these streets, the right hand lane will become an exclusive transit lane and will be indicated by painted pavement messages and signs. These exclusive transit lanes will be in effect between 7 A.M. and 6 P.M. On Mission Street between Beale and 11th Streets, and on Fourth Street between Market and Townsend Streets, loading islands will be built in the street.



On Mission Street, westbound transit vehicles will receive preferential treatment by designating the left lane as an exclusive transit lane and placing passenger loading islands in the street. In the eastbound direction, all traffic except transit vehicles will be diverted at 11th Street and at Fourth Street. By diverting eastbound through traffic from Mission Street, there should be less conflict for transit on Mission Street.

On Fourth Street, the center lane of the street will become an exclusive bus lane with loading islands in the street.

An experimental project on Polk Street, in which the sidewalks were widened at the bus stops at California, Pine and Sutter Streets, has already been done. With the sidewalks widened into the bus zone, the bus does not need to move out of the traffic lane to load or unload. The sidewalks have been widened by the width of the parking strip. This experiment will determine the effect on transit speeds of these widened sidewalks.

#### 5. Protected Neighborhood Projects

During the past several years, this Division has been working with the Planning Association for the Richmond and the Mission Coalition Organization to develop plans to minimize or eliminate the impact of through traffic on residential streets.

The concept includes various treatments, such as:

- 1) Landscaped corner bulbs, which are extensions of the sidewalk into the street area to provide additional green space and act to restrict certain traffic movements by narrowing the street.
- 2) Landscaped traffic islands which beautify the street area and break up long monotonous stretches of roadway.
- 3) Traffic islands which divert through vehicular movements.

Monies have been approved by the Board of Supervisors for Protected Neighborhood projects with approximately \$150,000 earmarked for the Inner Richmond District, and \$100,000 for the Mission District. The landscaping in these areas will be maintained by City forces and paid for through a sinking fund set up with federal street beautification monies. The method of funding other districts' landscape maintenance costs will be determined at a later date and may be by maintenance assessment proceedings.



Contracts for the Protected Neighborhood projects are tentatively scheduled to be let in 1974.

## 6. STOP Signs

The Department of Public Works is charged with the responsibility of making recommendations on STOP sign installation to the Board of Supervisors.

In the past, our policy was to handle each request for STOP signs on an individual basis; that is, investigating each intersection separately and making the appropriate recommendation.

The warrants for STOP sign installation could be a bad accident history, restricted sight distance, need for through street definition, or other characteristics which tended to make the intersection unsafe.

Recently, various community organizations (such as block clubs) expressed their concern about speeding vehicles and unwanted through traffic on residential streets, both of which are not necessarily reflected by reported accidents. As a result, the Department developed an "area-wide" approach to STOP sign installation as an adjunct to the other warrants.

Instead of treating each location on an individual basis, entire areas were considered. The streets within the area were classified to be either arterials, collectors, or local streets, and logical traffic control patterns were developed for the present as well as for the future. These patterns tended to encourage through traffic onto the arterials and collectors and discouraged them from the local streets. In addition, intersections near schools were given special attention, and the appropriate control was integrated into the plan.

In the development of the plans, the Department worked with the various community groups to determine their ideas and desires and to satisfy them if feasible.

The implementation of the plan involves two major phases: (1) recommendation of STOP sign installation at locations with immediate traffic problems (such as near elementary schools, high accident locations, etc.) (2) the eventual recommendation of STOP signs at locations where problems may develop. Both steps will adhere to the plan as much as possible.

## 7. Controlled Parking for Street Cleaning in the Richmond District

Approximately 60% of the 1700 curb miles of streets in the City are cleaned by mechanical sweepers, while the rest are cleaned by hand sweeping. The cost of street cleaning, per curb mile, is considerably cheaper by mechanical sweepers than by hand sweeping. Mechanical sweeping is approximately \$6 per curb mile as against \$30 per curb mile for hand sweeping.

Although it is more economical and efficient to clean streets with mechanical sweepers, the cleaning operation is very ineffective and difficult when a large number of automobiles are parked along the curb. The program of controlled parking was developed by the Bureau of Engineering and approved by the Board of Supervisors to clean streets more effectively with the mechanical sweepers, and to eliminate or at least greatly reduce the amount of hand sweeping.

The entire Richmond District with a mixture of business and residential areas was selected as the test area for the controlled parking program. The test area is bounded by Fulton Street on the south and Arguello Boulevard on the east. There are 4.5 curb miles of business streets and 120 curb miles of residential streets in the area.

Parking prohibitions were enacted in the Richmond District by the Board of Supervisors during the scheduled street cleaning hours. In the business areas, streets are to be cleaned between 7:00 a.m. and 8:00 a.m., twice a week on one side and three times a week on the other, Monday through Friday. In the residential areas, each street has a two-hour parking prohibition once a week, Monday, Tuesday, Wednesday, Thursday or Friday. The two-hour period will be either 8:00 a.m. - 10:00 a.m., 10:00 a.m. - Noon, or 1:00 p.m. - 3:00 p.m. The cleaning schedule has different days and times for each side of a street to minimize disruption to curb parking.

The Board of Supervisors has appropriated \$56,700 for the necessary signs to be posted on both sides of all streets in the district advising motorists of the time period of parking prohibition. A total of 2200 signs were purchased and are to be installed with one sign being placed on the shorter 240' block and two signs on the longer 600' block. The controlled parking program will be implemented on July 15, 1974.

The cleanliness of the streets in the Richmond District is expected to improve markedly once the program goes into operation. Presently, the personnel responsible for



New sign for parking regulations in conjunction with street cleaning operations being displayed by from left, Roger Hurlburt of SPUR, Arden Danekas of Planning Association of the Richmond, and George Woo of the Bureau of Engineering.

Right: Flashing  
school signal.  
Below: Rumble  
strip installation.



cleaning the district consist of five hand sweepers covering the business area and adjacent streets, while the remainder of the area is cleaned by a mechanical sweeper operating full time, but operating inefficiently due to the number of parked cars.

With controlled parking, the mechanical sweeper will be able to operate at a faster rate and cover the entire district. The five hand sweepers will be eliminated at a savings of \$80,000 a year. Assuming a ten year life for the signs and an annual cost of \$5,670, the net saving is approximately \$74,000 a year.

Funds were provided for a Traffic Control Officer who will work full time with the mechanical sweeper to effectively enforce the parking restrictions. It was estimated that the revenue from parking tickets will cover the costs of the Traffic Control Officer.

If the testing of the controlled parking program in the Richmond District is successful, the program will be expanded on a staged basis with the addition of a new district each year.

#### 8. Flashing School Signals

During the past year, flashing type "SCHOOL SIGNALS" were installed at 9 intersections throughout San Francisco making a total of 11 now in use. These signals are designed to provide for the crossing needs of children during those times of the day when they are walking to and from school. Traffic then is stopped on all approaches for their safety.

Because the signals are programmed to operate with time clocks only during the periods when they are needed, interruption to traffic movement is minimized.

The cost for such an installation is less than a third of what a full signalization would be and it still performs its intended function.

#### 9. Rumble Strips

Vehicular speeding in residential districts has become a focal point of public concern. The usual reaction is a demand for STOP signs. STOP signs, however, have little effect on midblock speeds and their excessive use threatens their effectiveness as a traffic control device. To meet the problem of high speeds, we are experimenting with the use of rumble strips -- strips of material projecting 1/2 to 1-1/2 inches above the pavement -- in

residential areas. These strips produce an audible rumble or thump and are intended to remind a motorist that he is driving too fast.

The first trial installations were on several blocks in the Richmond District. These strips were made of gravel and secured with an epoxy-aggregate seal-cote. Their height was 1/2 to 3/4 of an inch. A study at one of the locations showed that 85th percentile speeds in midblock dropped about 4 MPH in one direction and were unchanged in the other direction. Top speeds, however, remained considerably over the speed limit.

Considering the cost (\$1,200 per block), it was felt that the return was minimal and another type of installation was made. This installation, on States Street, in front of Corona Heights Playground, consisted of strips of asphaltic concrete 1-1/2 inches high and cost approximately \$340 per block. The before and after studies showed that these strips had a significant effect on traffic speeds (10 MPH reduction) and almost all motorists traveled below the speed limit after the installation. This installation and some subsequent ones have, however, generated complaints about noise and vibration. As a result, we intend to experiment with strips having a 1 to 1-1/4 inch profile, in the hope that they will remain effective in speed control but not generate some of the offensive side effects.

We are also working on a pre-formed material that would be cheaper and easier to install than the epoxy-aggregate seal-cote or asphaltic concrete strips.

#### 10. San Francisco International Airport - Traffic Signing Program

The major roadway signing program was initiated in 1973 by the San Francisco International Airport. The program called for the Department of Public Works, under work order, to fabricate, install and maintain all Airport traffic signs. During the past 8 months approximately 300 new signs were installed by the Department of Public Works sign crews working one day per week at the Airport. The work is in the following categories:

##### I. Regulatory and Warning Signs

All existing "Regulatory" and "Warning" signs that do not conform to the "State of California - Uniform Sign Chart" were to be replaced by standard signs.





Left: An example of the signing program begun at the Airport in 1973.

## II. Directional Signs

All existing Airport "Directional" signs are to be replaced by newly fabricated signs by the Department of Public Works. The old signs were non-reflectorized painted wood signs and have been replaced by "Specialty Directional" reflectorized aluminum signs. The following message signs were installed and maintained under this program.

- 1) Freeway
- 2) Parking
- 3) Rental Car Returns
- 4) Cargo Areas
- 5) Medical Center
- 6) Hilton Inn
- 7) Restricted Areas
- 8) Valet Parking
- 9) Airline (names)

## III. Parking Signs in Terminal Areas

Curb parking at the Airport curbs is different from that at City curbs and the following "Specialty Parking" signs are being fabricated, installed and maintained under the program:

- 1) Active Loading and Unloading
- 2) Specialty Bus Stop
- 3) Authorized Courtesy Vehicles
- 4) Authorized Taxicabs
- 5) Limousines

The signing program undertaken in 1973 has been extremely successful and the program has been extended to the 1974-75 fiscal year.

## 11. Army Street Circle

On June 30, 1974, the last of the major construction of the Army Street Circle project was concluded. Only landscaping remains to be done. This intersection of Army Street, Potrero Avenue and the Bayshore Boulevard with the on and off ramps to the James Lick Freeway constitutes the single most traveled intersection within the City and County of San Francisco with a total vehicular total count of some 65,000 vehicles a day. The overall Army Street project which has taken over five (5) years to complete and cost some 7½ million dollars, constitutes the largest Department of Public Works street job complex ever constructed at a single intersection. This entire project was designed and constructed completely by City personnel with the only outside consultant assistance being from soils engineers. While the five-year time period for the completion of this five contract project may appear excessive, it must be recalled that all of this work was performed while maintaining the flow of traffic through this intersection at all times, and without disturbing the major PG&E and PT&T and SFWD trunk lines which pass through this area.

This year the underpass section east and westbound on Army





was completed along with a reopening of the southbound freeway off-ramp connecting to Army Street and three other connecting ramps.

The reconstruction, a fully grade-separated interchange, provides free flowing traffic movements and safety of movement with greatly reduced conflicts in traffic flows. Already accident reductions have been noticed from the previous 68 per year average in the Army Circle to 21 during 1973, and this with only partial completion.

The largest single contract awarded during the prosecution of the Army Street Circle complex was Contract 3, which was awarded to the Contractor, Engstrum & Nourse, at a bid price of \$3,000,000.00 in 1971. The scope of this project included the excavation for the underpass of Army Street east and westbound for a total excavation of 27,500 cubic yards of material, and the furnishing and placing of some 5,000 tons of asphalt throughout the entire intersection, some 337,000 square feet of six-inch cement-treated base, some 2,500 lineal feet of rail lights mounted on the reinforced concrete bridges and roadways and 18,000 square feet



Left: Army Street Circle as it appeared in December, 1968.  
Right: The same area in June, 1974.

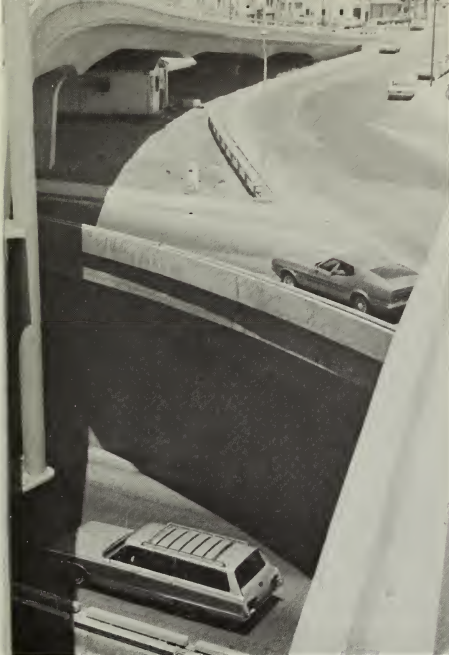
Below and Right: Two views of the three tiered separation which is the focal point of the nearly completed Army Street Circle Interchange.



of waterproofing membrane to protect the new walls. Some of the construction difficulties encountered during the progress of the project included substantial rock outcroppings encroaching into the new Army Street roadway area which required hydraulic rams to break out and remove. The presence of this material substantially delayed the Contractor's overall progress.

Roadway safety lighting throughout the interchange is provided by rail lights to eliminate posts and lights interfering with vision of motorists on roadways at another level. These are somewhat unique and place the light right at the intended roadway surface.

Traffic direction is provided for with overhead sign structures to guide motorists to their destinations.



These are in the style of the latest design and conform with those currently being installed throughout the state.

Drainage of storm water being of great concern in this natural drainage channel presented particular problems. A pumping plant and intercepting channel were designed into the project to prevent flooding of the underpass which is very near the elevation of high tide ground water. During the construction of the intercepting channel under this project, substantial underpinning of the James Lick Freeway was required which was accomplished without at any time interfering with the flow of traffic on that freeway. The anticipated high ground water table did not cause substantial problems and was controlled by the Contractor's operation from the onset.

## 12. Geary-Masonic Underpass

Construction on the Geary Boulevard Underpass at Masonic Avenue, which was reported upon in last year's Annual Report, continued during the year and is now 70% completed.

A massive cut was made down the centerline of Geary Boulevard from Wood Street to Lyon Street with a total of 50,000

Far Right: The Geary-Masonic intersection prior to the start of construction.

Right: The construction site as it appeared in December, 1973.



cubic yards excavated and removed. The resulting excavation, 1,280 feet long, and 60 feet wide reached a maximum depth of 30 feet at Masonic. The retaining walls, underpass walls and the reinforced concrete box beam roof structure are now completed and in place.

Despite the construction activities, traffic was maintained with minimal inconvenience to motorists. This was due to the successful use of phased construction operations to route and maintain traffic through the project.

Because of an exceptionally wet winter and unexpected construction problems, the originally planned completion date of January 21, 1974, has been extended until the fall of 1974.







### 13. Highland Avenue Bridge

The Highland Avenue Bridge over San Jose Avenue in the old Bernal Crt. area was originally constructed in 1928. The reconstruction of the bridge together with the reconstruction of the western roadway on San Jose Avenue was the last phase of the total project to correct a potentially hazardous road condition that has existed on San Jose Avenue. This project consisted of replacing center span piers with an arch to clear San Jose Avenue roadway, yet retaining the original deck structure. The first phase of the total project was the reconstruction of the Richland Avenue Bridge which was completed in 1970 (refer to Annual Report 1969-1970).

The plans and specifications for the Highland Avenue Bridge Reconstruction were completed and construction began in the middle of 1973. The new support for the structure consisted of two trapezoidal shaped steel box girder arches that were completely constructed in place before the existing bridge column supports were removed. The box girders which were necessary from a structural standpoint were then covered with a gunite coating to make them resemble the arches of the Richland Avenue Bridge which has resulted in an eye pleasing symmetry to the two structures. With the removal of the bridge columns, a four lane divided roadway has been created which will be an aid to safety and traffic flow along San Jose Avenue.

Construction was completed in June of 1974 at a cost of \$490,000.



Top Left and Right: Highland Ave. Bridge before and after reconstruction which eliminated the midspan columns. Above and Left: Two views of the box girders used to reinforce the bridge.

#### 14. Jennings Street Improvement

Jennings Street between Evans and Arthur Avenues, the first of numerous street projects scheduled for the India Basin Redevelopment Area, was constructed to provide vehicular access to the Lash Terminal of the Port of San Francisco and to the redevelopment area property. As the work was done under assessment proceedings, the cost was shared by the San Francisco Redevelopment Agency, Pacific Gas and Electric Company, and the City and County of San Francisco.

This and the other future street projects will open up a vast area of land for industrial and commercial development, thus alleviating its blighted condition. Such development will stimulate and attract private investment, thereby improving the City's economic health, tax base and employment opportunities.



Above and Right:  
Jennings Street before  
and after improvement,  
viewed south from  
Cargo Way.







Below: Peralta Avenue before improvement, with exposed PG&E gas main in the street area. Left: The same location after stairway construction.



#### 15. Peralta Avenue Stairway

The improvement of Peralta Avenue between Rutledge and Samoset Streets by the construction of a concrete stairway and ramp was completed in August of 1973. This project was initiated by abutting owners who were concerned with an exposed Pacific Gas & Electric Company high pressure gas main in the street area.

The unusual aspect of this assessment project was that Pacific Gas & Electric Company volunteered to share in the cost of this project. The final cost of the work was \$17,350 and was shared as follows:

Pacific Gas & Electric Co.	-----30%
City	-----35%
Abutting Owners	-----35%

## 16. Fourth Street Overcrossing

The City had long contemplated construction of a grade separation to carry Fourth Street over the Southern Pacific Transportation Company railroad tracks between Brannan Street and Berry Street thereby eliminating a hazardous traffic situation.

The project was conceived in the latter part of the 1950s but was held in abeyance until potentially conflicting freeway plans in the subject vicinity were finalized by freeway agreement in 1966.

Because certain freeway and overcrossing elements would have to share common rights of way, an agreement was negotiated with the State in 1970 whereby they would design and incorporate the City's project in their freeway plans for that section of Interstate Route 280 between 6th Street and 3rd Street. Under this plan a portion of the overcrossing would function as a southbound on ramp to said freeway.

Application was then made to the State Public Utilities Commission for eligibility and permission to construct. The Commission, after examining the data presented, assigned a Number One priority to the proposed overcrossing on the 1971 Statewide list of grade separation projects.

The City and State, therefore, proceeded with rights of way and design engineering predicated on the assigned priority and the mutual acceptance of the necessity of the project by the City, State and Railroad.

The City and the Railroad were on the verge of concluding an agreement specifying the work to be done and adjudicating costs as set forth in the Public Utilities Code, when the National Railway Passenger Act was inaugurated causing a re-evaluation of passenger train operations which made it possible for the rail passenger terminal facility to be moved from Third Street to Fourth Street as suggested by the Railroad, thereby eliminating the need for an overcrossing.

A thorough investigation of this Railroad suggestion by the State and City Departments disclosed this alternate solution as having distinct advantages esthetically, operationally, and economically.

The Board of Supervisors, on hearing this report, authorized the abandonment of the project contingent upon the Chief Administrative Officer and the Director of Public Works negotiating satisfactory settlement agreements with the State and the Railroad.

This action was taken in January 1972, but carrying out the intent of the Board was to consume a little over two years due in considerable part to appeals to the Public Utilities Commission by interests protesting the station move.

Successful negotiations by the Chief Administrative Officer, the Director of Public Works, and the City Engineer with their counter-parts at the Southern Pacific Company and the State Department of Transportation resulted in final official action by the Board of Supervisors in June 1974 that provides for full remuneration to the City of incurred costs plus a savings to the City of approximately \$500,000., representing its share of an overall project cost of about \$3,000,000.

## B. ENVIRONMENTAL WASTE CONTROL

### 1. General Administrative Activities

The Bureau's Division of Sanitary Engineering, Industrial Waste Branch, and Sewer Service Charge Section were brought together by a move to 770 Golden Gate Avenue on November 1st. The new facilities allow the Division space for staff expansion which will be necessary to design the facilities of the Wastewater Master Plan as well as improving overall efficiency by having all of the Division at one location.

The Department participated in the development of regional programs to improve the water quality of San Francisco Bay. With the City Engineer serving as a member of the Technical Advisory Committee of the Bay Area Sewerage Services Agency, a regional wastewater management plan was formulated. The State Water Resources Control Board's planning program to develop what is referred to as a "basin plan" for the San Francisco Bay Region involved extensive data collection and experience input from San Francisco. This basin plan, when completed and adopted, will be the basis for water quality requirements that San Francisco and other sewage planning agencies must achieve with the design of new treatment facilities.

As part of the continuing program of Wastewater Management Planning, evaluations were made of the potential market for an increase in the reclaimed water produced by San Francisco. The City participated in the preparation of the San Francisco Bay Area Inter-agency Wastewater Reclamation Study whose findings indicate that although a market for reclaimed water is likely in the vicinity of the San Joaquin Delta during the next two decades there is little likelihood that market potentials for reclaimed water from San Francisco will have an impact on the volumes and degree of treatment to which the City's Master Plan is directed.

## 2. Wastewater Treatment

### a. Pilot Plant Study

This project was started last year and was first described in the 1972-73 Annual Report. The purpose of this project is to determine alternative treatment processes for the City to meet requirements for wastewater discharge to the Pacific Ocean or to San Francisco Bay. Processes for reuse of wastewater or to meet future, more stringent requirements are being evaluated.

The project had a contract cost of \$1.23 million and consisted of constructing a \$175,000 pilot plant, testing biological treatment, biological-physical/chemical treatment, and physical/chemical treatment, each followed by filtration and activated carbon adsorption. Tests were run on the sewage at each of the City's three treatment plants. The State Water Resources Control Board and the Environmental Protection Agency have agreed to support this effort at a level of 87½% contribution. Liaison with these agencies was accomplished via monthly progress meetings with appropriate representatives of the involved agencies.

Major work elements completed to date include:

- Review of existing constituent data
- Influent characterization studies
- Pilot testing
- Analysis of results
- Economic evaluation of alternative processes.

All process alternatives were determined to meet State regulatory requirements at each plant, with the exception of the total chromium requirement. None of the processes tested could meet the chromium requirement.

The EPA requirement of 85% BOD removal for ocean discharge proved to be a key requirement. All other standards can be met simply by using chemical coagulation and sedimentation. The 85% requirement for ocean discharge requires the use of biological treatment or chemical coagulation and sedimentation followed by filtration and carbon adsorption.

Remaining to be completed is the detailed layout design of the selected processes. This is anticipated to be completed by the Fall of 1974.

### b. Bay Ocean Effluent Disposal Study

This study was previously described in the 1970-71 Annual Report. The report entitled "Marine Waste Disposal" which

included the preliminary design of submarine outfall sewers for the disposal of the City's effluent and which was two years in preparation, was completed. In September, 1971 copies of the report were submitted by the City to the State and Federal regulatory agencies, local agencies and to the Technical Advisory Board and comments requested.

The California Department of Fish and Game has been specifically concerned with the outcome of the study. At their request, the City has conducted supplemental studies to cover those areas where results of the original work were subject to questions.

The study has been conducted in three phases, namely, supplemental oceanographic investigations, marine ecological investigations, and Bay disposal evaluations.

The firm of Brown & Caldwell Engineers was retained for the present study. They also were the principal consultants on the previous work. The total contract amount on both this work and the prior contracts is \$653,000.

Results to date have confirmed the original conclusions of the prior work. The basic conclusion is that the treated waste flow from the City can be discharged to the Central Bay and Gulf of the Farallones without damage to the marine ecosystem and in a manner which will meet the water quality criteria of the regulatory agencies. A final on this project is anticipated in December 1974.

#### c. North Point Water Pollution Control Plant Outfall Diffusers

This project was initiated as a result of the recommendations of the San Francisco Bay Regional Water Quality Control Board to reduce the chlorine induced toxicity of the NPWPCP effluent, thereby affording greater protection to fish, wildlife, and other aquatic resources of San Francisco Bay. Cease and Desist Order No. 73-1 was issued to the City by the Regional Board in January, 1973.

The primary objective of this project was to provide increased initial dilution (from an existing minimum of 3:1 to a minimum of 10:1 for all dry weather flows under slack tide conditions) of the North Point Water Pollution Control Plant effluent discharge to the Bay.

This increase was required to meet the State requirements for other water quality parameters such as floatables, suspended matter, turbidity and color.

The existing four 48-inch outfall pipes are suspended under the pier docks. They formerly "end-discharge" into San Francisco Bay at a depth of about 10 feet below mean lower low water (MLLW) at an elevation of -11.67 (City Datum).

The existing outfall pipes were modified by adding 48-inch diameter, 80-foot long, ductile iron pipe multi-port diffusers at the terminus section. The alignment of the outfall pipes was altered to place these diffuser sections with 10" diameter ports at the maximum water depths feasible to achieve the desired initial dilutions at low slack tidal conditions. The diffusers were kept within the limits of the piers to avoid possible damage from anchors and to minimize the time required for obtaining outside agency approvals.

Extensive underwater and above water surveys were conducted by the City prior to start of construction to determine bottom mud profile, the existing structural adequacy of support pilings and presence of obstructions.

Among the unusual problems expected to be encountered during the construction phase of this project are:

1. Diversion of plant effluent flows during the installation of the diffuser sections.
2. Underwater installation of pipe support clamps to the existing piling.
3. Positioning of the diffuser sections on the pipe supports.

The low bid cost of the project was \$655,000. The Federal Government is committed to financing 75% of the cost and the State and the City each 12.5%. Start of construction occurred on February 11, 1974 and completion is anticipated by the Fall of 1974.



#### d. SEWPCP - Sludge Filters and Digesters

At the conclusion of the 1974 fiscal year, approximately \$4.1 million in Public Works projects were being administered at the Southeast Water Pollution Control Plant. The basic thrust of these contracts is twofold. a) To improve the digestion system and; b) To increase the plant sludge filtering capacity.

The improvement to the sludge digestion facilities in seven of the existing 10 Digesters at this plant represent some \$2.3 million of the above indicated outlay. These contracts are being performed by Monterey Mechanical and Scott Company on the seven digesters. The basic thrust of these contracts is to substantially remodel the interior of the digesters and to alter the piping and sludge introduction method, which would be more effective for rapid sludge digestion. The pilot changes to Digesters 8 & 9 have proven so successful from an operational standpoint that these seven digesters currently being remodeled should substantially increase the sludge digestion capability of the entire treatment facility. This added capacity will prove invaluable as part of the City's master plan for waste water treatment and is anticipated that these high speed digesters will be available for service by the end of August 1974. The improvements to the sludge filtering ability of the plant facility includes two new Comline-Sanderson coil sludge vacuum filters, in addition to the two existing filters; an automatic conditioning chemical feed system, and a new conveyor system to facilitate disposal of the filtered sludge.

A unique feature of the automatic conditioning system is that the amount of the sludge delivery is manually adjusted while the conditioning chemicals are automatically flow paced in the correct proportion thus reducing the amount of personnel attention required and resulting in a more uniform product.

A new control room is provided to protect electrical controls and instrumentation from the corrosive atmosphere and to allow the operator to monitor the operation of all four filters from a central location. Existing conveyor system is being reworked and rerouted, the piping and vacuum systems are being improved, new filter cake storage





Left and Below:  
Using a 100-ton  
Sheedy Crane, work-  
men install new  
11'-6" diameter coil  
filters. Extensive  
structural modifica-  
tions of the subfloor  
support system were  
required.



hoppers are being constructed and/or remodeled. The entire Elutriation Building is being acid proofed to prevent structural erosion is that building. The conclusion of these filter contracts will affectively double the sludge filtering capability at the SEWPCP. While the two filters and improvements to the conveyor system double the plants sludge filtration capacity the automatic control system allows the equipment to be run without an increase in plant personnel.

### 3. Industrial Waste Program

San Francisco's Industrial Waste Program is a result of recognition that certain industrial discharges introduced to the City's collection and treatment system could create situations hazardous to maintenance personnel, and produce adverse effects upon treatment facilities and processes.

A detailed account of the program's activities during calendar 1973 is contained in the Industrial Waste Program Annual Report 1973 which is a separately bound volume.

During fiscal 73-74, the Industrial Waste Program was implemented by a staff of eight and an approved budget of \$240,000 in tasks designed to fulfill the objectives of the Industrial Waste Ordinance. Briefly summarized, those tasks were to: (a) design, circulate, collect, and evaluate industrial waste discharge reports (WDR's). These reports, which were required of 161 firms selected by the Department, required that an analysis be performed of the firms wastestream by a State certified laboratory, and that the results be reported to the Industrial Waste Branch. Returned WDR's demonstrated that the industrial community consumed in excess of 3.5 billion gallons of water each month and discharged 17,459 lbs of grease, 27,438 lbs of suspended matter and 31,405,335 lbs of COD each day. Additionally, the reports indicated industrial discharges of the following heavy metals; arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, zinc, and certain pesticides. (b) Evaluate and extract data from collected WDR's to establish the loading rates which form the basis of surcharges assessed industrial dischargers. Loading rates for 28 industrial classifications embracing 3,000 firms were developed and adopted and billings commenced during October 1973. (c) Devise a method for estimating water consumptions of various 'eating places' which were not equipped with individual water meters. As the surcharges paid by 'eating places' represents a loading rate for grease only, estimates of water consumption become the basis of the fee for establishments not equipped with individual water meters. Following discussions with representatives of the many types of 'eating places', a system was adopted based upon seating capacity for sit-down types of establishments such as restaurants, cafeterias, burger-shops, etc., and a flat rate for snack bars, pizza parlors, doughnut shops etc. (d) Analysis of samples of raw sewage taken from several points within the industrial rich Southeast Sewage District, to determine specific constituent concentration levels which when correlated with data pertaining to anticipated future treatment system removal efficiencies will determine future source control programs. (e) Late in 1973, the Director began a series of hearings designed to determine time schedules for compliance with pH discharge requirements established by the

City's industrial waste ordinance. Firms, who had been identified as violators by evaluation of their returned WDR's and site inspections, were ordered, following public hearings, to within fixed periods bring their discharges within the levels established by the ordinance.

#### The Year Ahead

The first two years of the Industrial Waste Program witnessed a high level commitment of staff resources in task efforts toward the development of routines for implementing the Industrial Waste Ordinance and accomplishing its broad goals. With the initial tasks complete, program resources can be diverted to procedures designed to fulfill the following broad objectives: identification and location of all industrial dischargers, determination of additional discharger limits where necessary, and the dissemination of pertinent technical information to the industrial community.

#### 4. Wet Weather Overflow Control Program

##### a. Wastewater Management Master Plan Approval

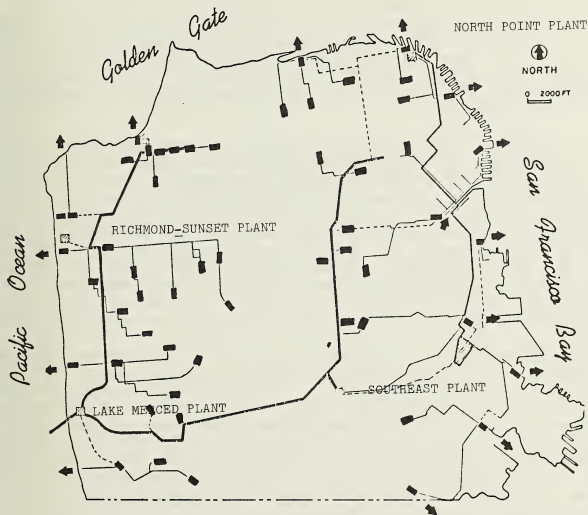
The San Francisco Master Plan for Wastewater Management, and Supplement I thereof, described in some detail in previous annual reports, was approved in concept by the Board of Supervisors July 2, 1973, after a series of public hearings. Resolution No. 451-73 which set forth the Board's approval, makes several important policy statements:

1. It directs immediate implementation of Stage I of the Master Plan.
2. The final decision on location of the combined flow treatment plant will not be made until further studies are completed.
3. The degree of control of wet weather overflow will be determined on a cost-effective basis.
4. The time schedule for completion will be based on "Schedule A" of Supplement I, the availability of grant funds, and any unavoidable delays which occur.
5. Other Wastewater related programs, such as the Industrial Waste Program, Sewer Construction Program, and Maintenance and Operation Programs should continue and have appropriate budget requests submitted.

The Regional Water Quality Control Board, upon receiving copies of the Board of Supervisors' resolution, held hearings and on September 23, 1973 adopted Orders 73-54 and 73-55 affecting the Richmond-Sunset and North Point Sewerage zones. These orders essentially establish a time schedule for completion of the various elements of the Master Plan, including critical decisions and actions for Stage II and subsequent stages of the Plan. The time schedule contains certain fixed date requirements but for the most part, the times are keyed to other events such as receipt of the Federal Draft Environmental Impact Statement.

One near-term action required by these Orders is for the Board of Supervisors ..... "to conform the Master Plan to such alternative measures or mitigation measures required by the environmental impact process in order to minimize adverse impact to the greatest practical extent." This matter will be submitted to the Board of Supervisors early in the next fiscal year in order to comply with the Orders.

## MASTER PLAN



The complete Master Plan for wastewater management is shown above. Retention basins provide storage, control flooding, and allow regulation of flow to the transportation system. During the major portion of the year, wastes will receive secondary treatment at the Southeast and Richmond-Sunset plants. These treated effluents will be transmitted through the tunnel and pipeline systems to Lake Merced where they will be discharged approximately 4 miles offshore. The North Point Plant will be abandoned. During storm conditions, flows exceeding the capacity of the secondary treatment plants will be transported to a 1000 million-gallon-per day capacity treatment plant at Lake Merced. The effluent will be discharged 2 miles offshore. The system will provide secondary treatment of all waste during a major part of the year and the bypassing of untreated waste will be virtually eliminated.

b. North Point Crosstown Transport Project

As mentioned above, the Board of Supervisors directed immediate implementation of Stage I of the Master Plan.

Design was therefore begun on the first project of Stage I, the North Point Crosstown Transport Project. The concept of transporting raw sewage from the North Point Plant to the Southeast Plant dates back to 1972 when a long range program was developed to meet the dry weather water pollution requirements set by the Regional Water Quality Control Board. The proposal was incorporated into Supplement I of the Master Plan to meet the Federal law requiring secondary treatment of all sewage by 1977.

As originally conceived, the flows entering the North Point Plant were to be pumped to the Southeast Plant which was to be upgraded to provide secondary treatment. From an intensive study of the concept and the sewer system, it was determined that approximately 19 million dollars could be saved by diverting a major part of the flow upstream of the North Point Plant to a proposed new pumping station in the vicinity of 7th and Berry Streets. This shortened the distance the major flows would need to be pumped, leaving a much smaller flow to be pumped from the North Point Plant, and results in substantial savings in operating costs over the original proposal.

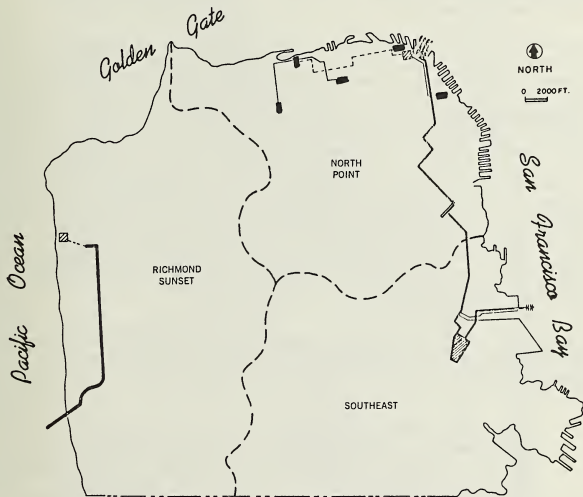
In November 1973, it became clear that if the plans and specifications for the crosstown transport project were not submitted to the State by May 1, 1974, the City would lose grant funding of 87 1/2% of the cost of the project. An accelerated effort was made and this requirement was met - plans and specifications for the pumping station, the 12,000 LF of 66-inch diameter force main and 2,700 LF of 24-inch force main from the 4th Street pumping station were submitted prior to the deadline. Because of this effort, and the completion of the required environmental review process, it is anticipated that a grant offer will be forthcoming for these contracts.

The North Point Crosstown Transport System will consist of the following four elements:

1. Channel Pumping Station and Force Main -

This pumping station will transport all of the flow from the North Point District to the Southeast Plant. Where possible, gravity flows which normally would have continued to the North Plant, will be diverted and to this new station. The remaining smaller flows will be pumped from the North Point Plant and from the existing Fourth Street Pumping Station.

# STAGE I OF MASTER PLAN



The program first stage is designed to achieve early compliance with State and Federal treatment standards and to reduce overflows in the critical north shore and ocean beach areas. Raw waste from the North Point service area will be pumped to the Southeast Treatment Plant. The Southeast Plant will provide secondary treatment for the dry weather flows from the North Point and Southeast areas. The effluent will be discharged to the Bay through an improved outfall. Wet weather waste control facilities will be constructed to control overflows in the north shore area. The North Point Plant will be converted to a wet weather facility to treat wastewaters from the area during storm periods. The Richmond-Sunset wastewater treatment plant will be substantially improved to produce an effluent quality acceptable for continued ocean disposal. Effluent from the Richmond-Sunset Plant will be transmitted to the Lake Merced area for ocean disposal.



The Channel Pump Station, when constructed, will contain six pumps powered by computer controlled 800 hp motors. It will efficiently pump 114 million gallons per day at a pumping rate equal to the influent rate. This matching of rates accommodates the daily flow variation of more than three to one, thus avoiding less attractive solutions such as large storage sumps which have a tendency to create a nuisance.

The design has incorporated many features to assure reliable continuous operation. For example, there is a back-up to the two mechanically cleaned bar screens and flow channels in the form of a separate channel with a non-automatic bar rack. Also one of the two pump suction channels could be shut down for servicing, if ever required; the alternate suction channel and pumps would still handle the raw sewage flow. In the event of computer failure, the pumps will continue to operate automatically through analog controls which will directly respond to level change in the pump suction channel. Overall computer supervisory control, which normally will direct these analog controls, is needed for data logging and to facilitate operation of the pump station from a remote location as an integral part of the North Point transport system.

Almost all of the pump station was designed by the City's engineering and architectural staffs. However, help from outside the City's staff has been obtained in two areas:

- a. The pump suction channels must be hydraulically designed by model studies. Improper design could result in cavitation damaging to the pumps. This modeling is being done in the Hydraulic Laboratories of the Civil Engineering Department, University of California, Berkeley.
- b. Water pressure surge analyses have been made by a consultant from the California Institute of Technology. Water column separation can occur in long pipe lines and the resulting water hammer forces can rupture pipe. To prevent this, specially programmed check (cone) valves are to be employed in the 66-inch diameter force main to open and close in a prescribed mode. Also, in case of failure of the driving motor of an operating pump for any reason, the inertia of the large flywheel, which is included in the pump drive shaft, will continue to operate the pump during the period required by the cone valve to close.

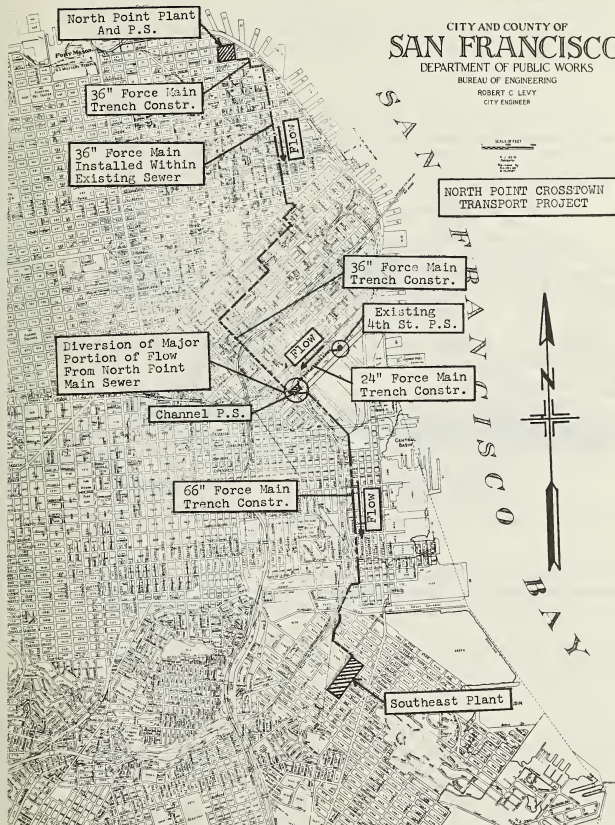


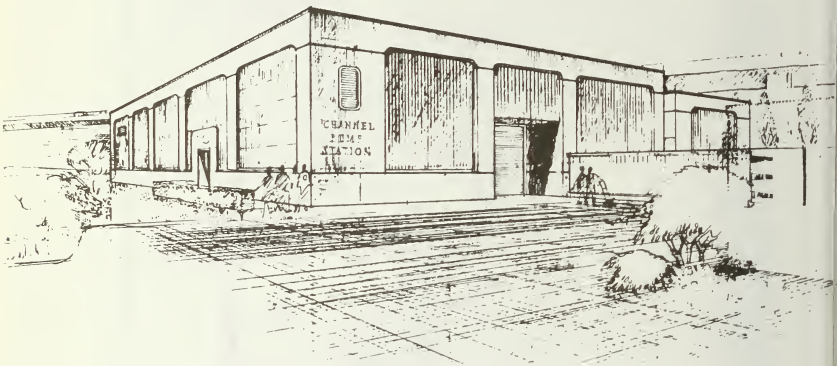
## DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

ROBERT C. LEVY  
CITY ENGINEER

NORTH POINT CROSSTOWN  
TRANSPORT PROJECT





Artist's rendering of the Channel Pump Station, an important link in the proposed North Point Crosstown Transport System.

The 66-inch force main is approximately 12,000 feet long extending from Channel Pumping Station to the Southeast Plant. Alignment is within City streets wherever practicable, but a considerable portion will be placed within State Highway right-of-way and on privately owned lands, including properties owned by railroads.

The Force Main will contain vents at the high points and drains at the low points, and will have a 36-inch diameter valved connection to the Selby Street Diversion Structure for possible use to deliver flows to the Southeast Plant prior to its expansion. The vents and drains will be controlled from the Channel Pumping Station.

The pipe material will be reinforced concrete pipe for the major portion of its length. Steel pipe will be used at bends, where soil conditions dictate, and at two locations where the force main will exist above ground because of subsurface obstacles.

It is anticipated that the pumping station and force main will be completed in 1977 at a cost of \$18 million.

2. Design was completed for a new 24-inch diameter ductile iron pipe force main which will deliver the flows from the 4th Street Pumping Station to the Channel Pumping Station. Cost is estimated to be \$500,000.

At present, the Fourth Street pumping station pumps flow to the North Point Main Sewer for transport to the North Point Plant.

3. The existing North Point Main Sewer and diversion structures will be modified to divert gravity flows to the Channel Pumping Station.
4. The North Point Plant will have a pumping station which will pump 28 million gallons per day through a 36-inch diameter force main to the Channel Pumping Station.

Although design has not yet begun, a novel approach is proposed to construct the 36-inch force main. It will be installed inside the 8-foot diameter North Point Main Sewer, which now carries the main flow to the North Point Plant. In this way, disruption of streets and utilities, traffic problems and congest will be minimized because only periodic surface access will be required, rather than full length street excavation through the most important financial and commercial part of the City.

Construction inside the North Point Main sewer could not be accomplished without the diversion of a major part of the flow from this sewer to the Channel Pumping Station.

Facilities for the control of wet weather under Stage I will consist of two elements:

1. The North Point Plant will continue to function as at present until the Southeast Plant is expanded and the transport system is completed. It will then become a wet weather treatment facility; that is, storm flows will be treated and discharged to San Francisco Bay through the existing outfall system. Eventually, the plant will be abandoned and flows will be transported to a new wet weather plant proposed for future construction.
2. Five underground detention basins will be constructed to store storm flows until such time as treatment capacity at the plant is available.

#### c. Rainfall-Runoff Monitoring Program

The City's rainfall-runoff data acquisition system activities were extensively described in each annual report since 1970-1971.

A preliminary analysis has been made of 24 storm events during 1971-72, ranking each drainage district's total rainfall in those storms as high, medium or low as compared with each of the other districts. Approximately 50% of the events were classified as "High" in the Richmond-Sunset District, "Medium" in the Southeast District, and "Low" in the North Point District. Of the remaining 50% in each district approximately one half, or 25%, fell into one of the remaining rankings. Further data and analysis is required before any firm conclusions can be reached. Preliminarily, however, it appears from this single analysis that a reallocation of total storage volume suggested in the Master Plan for each district may be required.

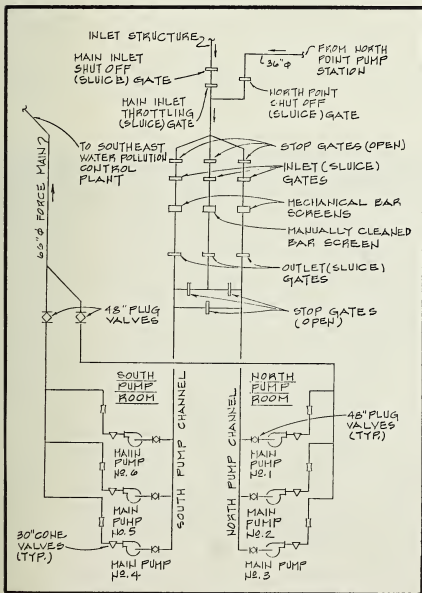
The data acquisition system is functioning well and continues to gather and record data for the detailed spatial and temporal history tables required to effect future rainfall-runoff prediction and control.

However, some 28 flow monitors of the 116 now installed are delivering suspect readings; the air tubes installed in the sewers may have been torn loose during last year's heavy storm flows. An intensive effort will be made to inspect and

restore these monitors to proper condition before the forthcoming rainy season.

The information gathered by the rain gauges during the 72-73 and 73-74 winters was of excellent quality and when analyzed with flow measurements from drainage district No. 25 (Vicente) provided the first measured rainfall-runoff relationship in the hydrologic history of the City.

Maintenance contracts, let each year to service the equipment, continue to effect some measure of improvement in the system, including re-calibration and replacement of various components. It is anticipated that staff capability will be soon developed in order to more efficiently and effectively maintain the system and reduce the annual expenses.



Left: Waste water flow diagram for the Channel Pump Station.

## 5. Grant Program

1973-74 was a busy year as the grant program for water pollution control began to gather momentum. Grant funding generally fell under three categories; increases in existing grants, receipt of new grants and meeting requirements for anticipated grants.

### Existing Grant Increases

- a. Southeast Water Pollution Control Plant (SEWPCP) Solids Handling State Grant (C-06-0749) was increased to 12½% (\$1.25 million) from 5%. The Federal share remained 75% (\$7.5 million) and the City share was reduced to 12½% (\$1.25 million) from 20% (\$2.0 million).
- b. Supplemental interim reimbursement of approximately \$1 million was received from the Environmental Protection Agency (EPA) for projects built between 1966 and 1972. The remaining approximately \$0.7 million will be reimbursed as Federal funds become available.
- c. An increase of approximately \$76,000 and extension of time for testing was granted by EPA for Baker Street air flotation facility.



New TV sewer inspection mobile unit is now in operation.



## Receipt of New Grants

Combined Federal and State Grants totaling 87½% were offered and accepted for County Jails No. 2 & 4 Force Main and Pump Station. The project cost was \$570,000 and construction is nearly completed.

## Anticipated Grants

- a. The EPA and the City published a joint EIR/EIS\* on the Master Plan for Wastewater Management with J. B. Gilbert & Associates as consultants.
- b. The EPA and the City published a joint EIR/EIS on the first element of Master Plan construction, the North Point to Southeast Transport Project. Public Hearings for both documents were held in April and May, plans and specifications for the Transport Project submitted to the State in May and grant offers of approximately \$18 million are anticipated in July or August 1974.
- c. Step I (Planning) grant applications were filed for Facilities Planning, Pilot Studies and Oceanographic & Toxicity Studies totaling \$7.1 million. Much of this work has already been completed in development of the Master Plan and this is the first opportunity for reimbursement to the City for the extensive Planning accomplished over the past few years.
- d. A step 1 (Planning) grant application was filed for Treatment Works for Wet Weather flow totaling \$200,000. Grant offers for both Step 1 planning grants (#3 & 4) are anticipated in July or August 1974.
- e. Preliminary information was filed with the State for F. Y. 1974-75 construction grants totaling \$104.4 million. Projects in this total include:
  1. Expansion of SEWPCP to Secondary treatment.
  2. Interim Outfall at the expanded SEWPCP.
  3. Interim Improvements at NP and SEWPCP.
  4. Upgrading treatment at the Richmond-Sunset WPCP.

Another important activity was the filing of applications in October for the National Pollutant Discharge Elimination System (NPDES) Permits. By means of the NPDES permit the Regional Water Quality Control Board will set limitations on the City's present and future sewage plant effluents. These waste discharge requirements are necessary to proceed with final design of upgraded treatment facilities and the permits are anticipated before December 1974.

\* Environmental Impact Report/Environmental Impact Statement



## 6. Sewer Systems

### a. TV Sewer Inspection

In November 1973 the Bureau initiated a program for the inspection of the interior of sewers throughout the City by means of closed circuit Television. Such inspection has been previously done for the City by private consultants who made film strips to be analyzed by City Forces.

Implementation of the program has included:

1. Acquisition of a truck-mounted TV sewer inspection mobile unit.
2. Formation and training of a 3-man operating crew.

The unit is self contained and equipped with a built in television monitor, control panel closed circuit TV camera and Video tape recorder unit. Power is supplied by a 110 volt AC generator. The TV inspection capability includes sewers from six inches to forty-eight inches in diameter. Larger sewers are inspected by men entering the sewer who can now be equipped with a hand-held TV camera.

Based upon initial start up operation, the inspection program will cover an estimated thirty miles of sewer per year. As this program progresses, the costly results of pavement failures due to undermining, traceable to broken sewers, will be avoided and the older portions of the sewer system can be reconstructed on an as needed-basis resulting in a considerable saving to the city.

### b. Infiltration/Inflow Report (North Point District) Phase I

Infiltration and inflow of water into the sewerage system increases the volume to be treated, the size of treatment works and the cost of treating wastewater. The volume of infiltration and inflow is defined as excessive if the estimated cost for its treatment is greater than the estimated cost for its correction in the sewer system.

Congress passed the Federal Water Pollution Control Act Amendments of 1972, whereby it becomes mandatory for agencies seeking Clean Water Grants offered by the State and Federal Agencies, to submit a formal analysis of infiltration and inflow in the collection system.

Major fresh water inflow occurs during wet weather when rainfall enters the system. The 6 billion gallon per day rate of inflow during a 5 year storm into the North Point Sewer System cannot be eliminated, as continuation of the combined sewer system in

San Francisco is the most cost effective solution now existent. Minor salt water inflow occurs from leakage through tide gates and occasional topping of overflow weirs.

Infiltration can occur when the ground water level is above the sewer. It then enters through defects in the sewers which usually develop over a period of time. By comparing the metered water consumption records to sewage received at the treatment plant, pump stations, and salinity measurements of critical sewers, the total volume of infiltration and inflow other than wet weather has been deduced to be 3 MGD and 16 MDG, respectively which is excessive.

A large portion of the 16 MGD gallon per day rate of dry weather inflow is found in the area bounded by Market and Powell Streets on the east, Jackson Street on the north, Presidio Avenue on the west, and Fulton Street on the south.

This volume of inflow has not been identified as to source and cannot be assessed at this time. The area is highly developed and, in addition to domestic waste, the sewers are utilized for disposal of inflow from dewatering of existent subsurface facilities and those under construction within the area. Estimates of possible future reduction of this inflow will not be made until identification of the source has been accomplished or correlation of basic data is checked.

The program of repair and replacement of defective sewers can be expected to eliminate approximately 2 MGD of the 3 MGD infiltration existing in the North Point District.

After review of the Phase I Report Sewer System Evaluation for Infiltration/Inflow North Point District completed February 1974, Federal and State agencies may require the City to proceed with Phase II analysis.

### C. Hyde Street Sewer Consolidation

The Hyde Street-Jefferson Drainage District will be consolidated with the Beach Street Drainage District. This consolidation will eliminate discharges from the Hyde Street outfall and the need for the existing Hyde Street Pumping station. It will also relieve past problems of sewage backup and flooding on Jefferson Street.

The 17 blocks of sewer construction is primarily located within the Fisherman's Wharf area which is a main tourist attraction in San Francisco. Other work coordinated into this project are AWSS facilities construction, removal and abandonment of railroad spur tracks on Beach Street, and raising of railroad tracks on Jefferson Street.

The anticipated construction period of 12 months is spread over 2 years which is based upon the merchants' request that all construction work be ceased in certain areas during the tourist season (May to September) and during the holiday season (December). In addition to tailoring construction times, further consideration to reduce the impact of this project on the local environment includes traffic routing throughout the construction area which will provide owners access to their driveways and restrictions on the contractor's use of street area.

Liaison between the property owners, the merchants, the Fisherman's Wharf Association, Port Authority of San Francisco, Southern Pacific Railroad, and utility companies has been effectively established during the development of the project. Several meetings were held with affected property owners and merchants prior to advertising so as to advise them of the impending construction and to receive their comments and concerns in order to minimize disruption to the area. As a result of these meetings, all bidders were required to attend a pre-bid conference to be informed of the actual working conditions and restrictions that would be enforced during the life of the contract. Further cooperation during the ensuing construction period by the involved parties will minimize inconveniences.

## C. RECREATION AND PARK ENGINEERING

### 1. Hunters Point

The Hunters Point Redevelopment area is a Project to upgrade a depressed minority district by providing new housing and open space for the residents. The Bureau of Engineering, acting as agent for other local jurisdictions, is responsible for the design and development of the open space portion of this Program. The work is being accomplished in several phases.

The first phase of the Project is the construction of a large park located in the vicinity of Palou Avenue and Jennings Street in one of the more pleasant climate areas in the City. The site is a rolling hillside overlooking the southern part of the Bay. The steepest portions were forested allowing the development of two meadow areas for free play. Picnic grounds and children's play areas are adjacent to the paths in the wooded areas.

Phase two was the landscaping and installation of play areas within the San Francisco Redevelopment Agency's Housing Sites 1 and 2. Where possible, the steep slopes were utilized as a feature in the playgrounds or were planted. The flat areas were sown to grass. The landscaping was further enhanced by the residents with their own choice of herbs.

The third phase is the development of the Ridgetop Plaza. The Plaza is the result of co-operation between San Francisco Water Department, the San Francisco Redevelopment Agency and the San Francisco Recreation and Park Department.

The Plaza, built atop a San Francisco Water Department reservoir utilizes space that is otherwise unusable.

The large expanse of the area is relieved by an intricately patterned pavement, large planters, shrubs, trees and flowering plants. A concrete bench wall forms a parapet along one edge. More benches and cast-in-place tables for checkers or chess provide outdoor furniture which will serve the community as a center for public gatherings, dances and rallies.

At the present time two other projects in this area are contemplated. Bids are expected shortly on Redevelopment Agency Housing Site 3. Plans have been completed for Housing Sites 4 and 5 but the construction for these sites has not been scheduled.

The Consultant on all of the above phases of this Project (Royston, Hanamoto, Beck & Abey) working closely with the Bureau of Engineering personnel, designed this beautification project in such a manner that the seven parkway sites were all interconnecting and afford an opportunity to the residents of the area to traverse long distances in a park-like setting. Upon completion of this Project, the basic design parameters of combining open space with recreation areas has been well served. Slides, swings and climbing structures dot the entire seven park areas, and in the pre-school play areas resting facilities have been installed for the mothers. In addition to the recreation improvements of the Project, vast amounts of ground cover and jute mesh were installed to insure continuing erosion control for new construction areas.



Above: Ridgetop Plaza during construction. Right: Landscaping features of Housing Site I.





2. Marina Small Craft Harbor - Vessel  
Waste Discharge Pumpout Facility

Scheduled for completion of construction in August 1974 is the first project of its kind to be built in San Francisco.

Spurred by a recently enacted State Law which prohibits the discharge of sanitary waste from floating craft into any harbor or bay, the Bureau of Engineering designed a floating structure with pumps and a pile supported pier to reduce or eliminate such discharges.

The main problem for the designers was the lack of space in the relatively small harbor to install an additional floating facility without eliminating any existing berths and without encroaching upon any of the existing water-way area needed for safe boat maneuvering. Other requirements were the avoidance of a crosswind approach by boats to the pump-out station and close proximity of the facility to the Harbormaster's Office.

The remnant of an old rockmound breakwater in the interior of the west harbor, occupying valuable harbor space, provided a solution to the problem.

The deteriorating end of the jetty was cut back to provide



Above and Right: Vessel pump-out facility under construction.

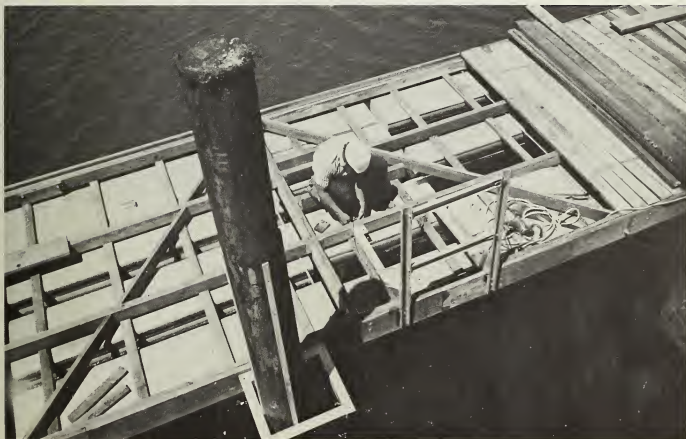


the sea room needed for the float. The remaining portion of the jetty provided space for the shoreside portion of the utility and discharge lines as well as firm support for the pier. The pier in turn provides the transition required for the utility lines between shore and the floating facility. The pier serves double duty; giving the public an observation deck close to the water.

The longitudinal axis of the float was set parallel to the direction of the prevailing westerly wind to provide safe and easy access by floating craft to and away from the mooring.

The suction lines of the two pumps on the float connect directly to the fittings on the boat hulls which lead to holding tanks in the boats. The average holding tank contains about 30 gallons of sanitary waste. By law, boat heads must discharge to their holding tanks and not into bay or harbor waters. The effluent from the pumps is discharged to the City sewer system.

Total cost of construction for the pumpout facility was \$70,000 financed from sewer bond funds.



### 3. Bay View Playground

Bay View Playground is bounded by Third Street, Armstrong and Carroll Avenues and Kieth Street in a mixed neighborhood of industry and old residences. This playground was originally opened in 1928. No improvements have been made since the original installation until 1968 when an open air swimming pool was built.

This spring further improvements were initiated with the relocation of the children's play area originally situated at the street edge.

The new play area is located more safely, further into the Park. An unsightly earth bank resulting from the pool construction was replaced with a sloping concrete wall which becomes a play feature and confines one side of a sand area for active play. A custom designed climbing-structure, swings and slides offer further creative play experience.

Trees are planted to shade the benches and define the play area; lawn with grass mounds plus a low perimeter fence acts as a buffer to lessen the possibility of children dashing into the street area and provide space for free play and picnicking.



Above: Workmen install play apparatus at the Bayview Playground.

#### 4. Golden Gate National Recreation Area

Proposition "F" passed by the voters of San Francisco on November 6, 1973 authorizes our Board of Supervisors and the Recreation and Park Commission to transfer certain City park lands to the United States National Park Service for the Golden Gate National Recreation Area. This National Recreation Area was created in October 1972 by the Congress of the United States (Public Law 92-589) to preserve for public use and enjoyment areas both north and south of the Golden Gate, possessing outstanding natural, historic, scenic and recreational values and to provide open space necessary to urban environment and planning.

The National Park Service is purchasing private lands within the Park boundary. Public Lands, according to law, owned by the State or any political subdivision thereof may be acquired for the Park only by donation. Lands within the boundary of the Park which the City owns or has an interest in include Fort Funston, Ocean Beach, Seal Rocks, Sutro Heights Park, Lands End, Fort Miley, Lincoln Park (excluding the Golf Course), Phelan Beach, Bakers Beach access, the Marina Small Craft Harbor, Marina Green, the Municipal Pier, Aquatic Park and various streets.

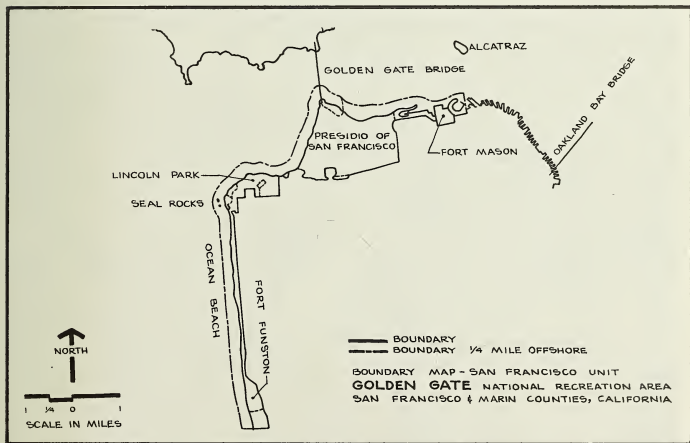
The first land donation will probably occur during the 1974-1975 fiscal year and could include Lands End, Fort Miley, Sutro Heights Park and a portion of Lincoln Park.

To provide for a smooth transition from City to Federal jurisdiction and to prevent misunderstanding the National Park Service has engaged a Title Company to research property titles for the first phase while the City is considering and resolving property lines, easements and right-of-ways for administration, operation, maintenance and repair of existing and proposed City improvements.

The City, although relieved of responsibility and expense of administering the lands, is still concerned about their development, parking, possible fees, transit, sand incursion, pedestrian tunnels beneath Great Highway, lateral support for roads and public ways, points of historical interest, development of Park lands not acquired from the City and the designated agent for the National Park Service. A committee consisting of representatives from the National Park Service and various interested City departments is working to resolve

these questions and provide a sound working relationship. The City Engineer has served as Chairman of the Committee. Work to date has been concerned only with the possible first land donation.

Of particular concern to the Department of Public Works is proper provision for sewerage facilities as the National Recreation Area will have jurisdiction over all the City shoreline west of Hyde Street. Water Quality standards enacted by Federal, State and Regional authorities require the upgrading of existing and construction of new facilities. Space for required facilities such as collecting sewers, pumping stations, detention basins, overflow lines, pollution control plants and outfalls may be needed in lands to be transferred to the National Recreation Area by the City. The magnitude of the proposed facilities is unknown at this time. Therefore, extreme care and caution is a necessity in the transfer of property and in making provisions for future facilities.



Right: Nearly completed  
Powell Mall looking north  
from Market Street.  
Below: Market Street east  
of 6th Street with newly  
installed trees and brick  
sidewalks.





## D. STREET BEAUTIFICATION

### 1. Market Street Beautification Progress

With Market Street Reconstruction Contracts 1, 2, 2A, 4 and Powell Street Mall approaching completion, Market Street Beautification is becoming a reality. In most areas between Steuart Street and Seventh Street pedestrians no longer have to move cautiously around construction barricades and equipment. The brick sidewalks now extend the full 35' to the curb, new Path-of-Gold lights are being delivered and installed, deliveries of new traffic signs and pedestrian signals have begun, and over 300 sycamore trees have been planted to provide a green belt along a formerly gray and automobile-transit oriented street.

A furniture contract including benches, street clocks, drinking fountains, bicycle racks and bus shelters was advertised in June, 1974. This will provide the finishing touches to what has become a major revitalization of downtown San Francisco.

A contract for construction of the United Nation Plaza at the intersection of Fulton and Market Streets will be advertised shortly.

Construction work on Market Street has shifted to the area west of Seventh Street. Contract 3, 8th Street to McCoppin, was awarded to the low bidder, Westate Engineers, Inc, for \$3,053,000. The contract is expected to last one year and will include tree planting and installation of granite curb and gutters as well as the normal widening, brick paving and related work.

### 2. Noe and Sanchez Street Beautification

The Noe and Sanchez Streets Sidewalk Narrowing and Beautification Project was financed by gas tax funds and federal funds from U.S. Department of Housing and Urban Development as part of the improvements in the Federally Assisted Code Enforcement (FACE) Program.

Noe and Sanchez Streets are located in the Duboce Triangle FACE area, bordered by Market, Castro and Duboce Avenue. Both streets were originally constructed in 1896 or before and had deteriorated through use.

City Planning Department, Duboce Triangle Neighborhood Association and the Department of Public Works cooperated in the design of the street beautification plans.



A contract was awarded to Westate Constructors, Inc. to reconstruct and renew the surface and underground facilities of both streets. The scope of project included the repaving of the roadways for traffic safety and the installation of new sewers street light and sidewalk trees. Additional parking spaces and landscaped sidewalk plazas were provided through a combination of narrowing and widening of the sidewalk.

In the planning and design of this project the problem of maintenance was not completely resolved prior to the construction of the project. Since success of any street beautification program depends on how well it is maintained after installation, future street beautification projects must include a satisfactory maintenance program.

### 3. Neighborhood Shopping District Street Beautification

The study that was reported in the 1972-73 Annual Report was completed in September 1973, and the study report, along with enabling legislation, was submitted to the Board of Supervisors in December 1973, after the report had been presented to the Council of District Merchants and their approval received.

The Board of Supervisors adopted Resolution No. 59-74 on January 21, 1974, which established the following:

- a. A City-wide street beautification program for neighborhood shopping districts.
- b. A fund from gasoline tax for the City's portion of the costs.
- c. Restrictions on the use of the funds.
- d. Minimum 10 percent financial participation by the fronting property owners.
- e. Maintenance assessments districts to pay for annual maintenance costs.
- f. Methods for establishing priorities as to which districts come first.

This Bureau transmitted copies of the resolution and of the study report to all neighborhood shopping districts and set a deadline of July 1, 1974 for participation in the 1974-75 fiscal year. Seven districts responded by the deadline, and we will be working with them during the coming fiscal year to design and hopefully construct some of the street beautification plans in these districts.



Above and Left: Sanchez Street at 14th Street before and after the reconstruction and beautification project.

#### 4. Legislation for Assessment Maintenance

With the implementation of the neighborhood beautification program and the difficulties encountered with the cleaning and repair of such special sidewalk treatment areas as Mission Street in the vicinity of the BART Stations, and Market Street, it was necessary to legislate a method of financing this type of maintenance work. An enabling Ordinance was sent to the Board of Supervisors which authorizes the creation of special assessment maintenance districts within the area benefited and spreads the cost equitably among the properties benefited. The City may share in the costs of this maintenance work with the assessment district. Before each maintenance assessment district is formed the Department of Public Works and the Board of Supervisors must each hold public hearings with the effected property owners. Once an assessment maintenance district is formed the Board of Supervisors, each year, estimates the cost of maintenance for the upcoming year and levies a tax on each property in the district, proportionated to the assessed value of the land. It is hoped that the first district will be formed before 1975.



Above: Precision Noise Analyzer. Right: Analyzer is used to measure noise output of a muffled concrete breaker.



## E. GENERAL ENGINEERING SERVICES

### 1. Enforcement of Noise Control Ordinance

With the passage of the San Francisco Noise Control Ordinance in September, 1972, the Department of Public Works became responsible for the enforcement of the sections related to control of noise from construction equipment and activities.

Section 2907 of the ordinance requires that powered construction equipment shall not emit noise exceeding 85 dBA at a distance of 100 feet effective six months after the effective date of the Ordinance and shall not emit noise exceeding 80 dBA at a distance of 100 feet effective forty-two months after the effective date of the Ordinance. Impact tools, although exempted from these dBA limits, must be equipped with intake and exhaust mufflers as applicable; pavement breakers and jackhammers must be equipped with acoustically attenuating shields or shrouds.

Section 2908 prohibits any construction work between eight o'clock P.M. of any day and seven o'clock A.M. of the following day if the noise level created thereby is in excess of the ambient noise level by 5 dBA at the nearest property line, unless a special permit has been applied for and has been granted by the Director of Public Works.

The Bureau of Engineering is responsible for regulation of noise from all construction within public street areas as well as any from contract activities being administered by the Bureau. The Bureau of Building Inspection is responsible for regulation of off-street construction noises.

With the procuring of noise metering equipment and the training of personnel, the Bureau has moved into active enforcement of the restriction on construction noise.

An important aspect of enforcement activities is working with manufacturers of impact tools and equipment on the design of intake and exhaust mufflers and acoustical attenuating shields to determine the best means available of accomplishing maximum noise attenuation. Significant progress has been made, particularly for steam-driven pile drivers and jackhammers. The Bureau has arranged manufacturer's demonstrations of quiet equipment for the benefit of other public agencies and general contractors.

### 2. Earthquake Protection For Fire Department Pumping Stations

Two 62-year-old pumping stations located at Second and Townsend Streets and at the foot of Van Ness Avenue are connected to the Auxiliary Water Supply System (AWSS) for fire protection. An unending supply of salt water can be pumped

from the bay through the stations into these lines which are not connected to the domestic water supply system.

In consideration of the ages of these buildings, the Bureau of Engineering and the Fire Department jointly decided to provide earthquake protection while converting the stations to diesel drive for economic reasons.

All four 90-foot high steam boiler smoke stacks in Pumping Station 1 at Townsend Street and the 150-foot high stack in Pumping Station 2 at Van Ness Avenue will be removed as earthquake hazards when diesel engines replace steam turbines for pump drives.

Inside Pumping Station 1, an earthquake-proof concrete vault 10 feet high with 10-inch shear walls and 5-inch deep steel grating on the roof was designed to enclose all four pumps, generator, and related equipment. The vault protects the enclosed equipment against the collapse of the 40-foot high walls and steel truss framed roofing of the station. Mountings and supports for equipment within the vault were designed to be operable after being subjected to repeated earthquake movements.

In Pumping Station 2, the earthquake protection design is similar to Pumping Station 1 except that construction of the vault is deferred until funds are available.

The pumps in the Fire Department Pumping stations are driven by steam turbine engines with steam from boilers. There are 8 batteries in Pumping Station 1 and 6 in Pumping Station 2. Two boilers in each station must be continuously fired in order to have steam available at all times.

When the steam turbine engines are replaced with diesel engines, continuously fired boilers will not be needed. Estimated saving in natural gas for both stations is 17 million Cubic Feet annually, enough to heat 150 average homes.

This contract for Pumping Station # 1 was awarded on May 29, 1974 to S & Q Corporation in the amount of \$779,747.00.

### 3. Auxiliary Water Supply System (AWSS) Bond Issue Progress

A \$8,491,000 Fire Department Bond Issue providing \$4,771,000 for currently proposed items in the long term master plan for AWSS development was approved in November, 1971.

During the 1973-74 fiscal year the following projects funded from the Bond Issue were under construction:

Fire Department pipe yard Improvements for  
\$86,000 at 2245 Jerrold Avenue.

Keith St., Fairfax to Evans Avenues \$37,700  
main extension.

Taylor Street near Beach to Bay and Powell  
Sts. \$139,400 main extension.

By the end of the fiscal year contract Awards had been made  
for:

A \$857,600 diesel drive conversion for  
Saltwater Pumping Station No. 1.

A \$229,000 ductile iron fitting and casting  
purchase, and a \$30,000 Taylor Street main  
connection at Beach and Taylor Streets planned  
for concurrent sewer work.

This brings the total amount committed under contract to  
\$1,545,000.

Design has been completed for construction of a vehicle  
storage shed at the Fire Department's Pipe Yard and for mains  
in Fairfax Avenue from Mendell to Keith Streets and Quint



Left: 150-foot smoke  
stack at Fire Dept.  
high pressure Salt-  
Water Pumping Station  
No. 2 will be removed  
to reduce earthquake  
hazard when the steam  
turbines are replaced  
by diesel engines.



Street from Jerrold to Evans Avenues.

Design work has been in progress on the following projects, which are scheduled to be under construction during the 1974-75 fiscal year:

High Pressure Pumping Station 2, convert to Diesel Drive.

Motorized valves at various locations.

Hydrants and Valves for high pressure water system extensions at various locations.

3rd St. Mariposa to 4th AWSS Extension.

Quint St., Jerrold to Oakdale, and Oakdale Ave. Quint to Selby, AWSS Extension.

Sutter St. Fillmore to Laguna, AWSS Extension.

Golden Gate Ave., Pierce to Fillmore Sts.

Fulton St., Fillmore to Gough.

Gough St., Fulton to Grove.

Grove St., Gough to Franklin - AWSS Extension.

A proposed 1974 Fire Department Bond Issue if passed will provide funds for the 4th Street, Berry to Third St. AWSS Extension.

4. Progress Report for 1972 Street and Park Roadway Lighting Bond Issue.

During the fiscal year we were able to proceed with work under the \$6,050,000 1972 Bond Issue despite a heavy demand upon our staff due to work on the Water Pollution Control Program and its corresponding deadlines for federal and state grant funds.

Bids were received for work under the following contracts.

Location	Bid Price
Potrero Hill Area	\$ 66,222.
Mission Area	72,210.
Apparel City Area	64,794.
Powell & Stockton Streets	50,905.



## 5. Coordination of Utilities' Street Openings

To the average citizen in any urban center, it appears that the downtown streets are continuously torn up for some type of construction. San Francisco, with its construction boom in many new large office buildings, is no exception and possibly is experiencing this congestion to a greater degree due to the compact area of the financial and retail business in the downtown section and because San Francisco is an old City requiring more replacements of existing buildings.

The Department of Public Works has been coordinating this street work with all public and private utility companies through the permit procedure and through monthly meetings with utility company personnel. However, the private citizen, the businessman and the merchant have not been directly involved in the regulation of this work in the past.

In order to give all concerned and affected citizens and business groups a more involved part in alleviating congestion and disruption caused by street construction, the Board of Supervisors adopted Ordinance #396-73 on October 9, 1973, which established two committees as follows: (a) Street Utilities Coordinating Committee, (b) Citizens Advisory Committee for Street Utility Construction.

The first committee, which is chaired by the Director of Public Works, is composed of senior management personnel from the public and private utility companies as well as the Department of City Planning, the Police Department and a citizen representative from the second committee. This committee is a policy making group and has two staff-composed committees, which carry out the day-to-day operations.

The second committee is composed of twenty-one members and acts as an advisory group to the policy making committee. The committee consists of representatives from the San Francisco Planning and Urban Renewal Association, Chamber of Commerce, Council of District Merchants, Associated General Contractors, Organized Labor, Downtown Association, six neighborhood groups, seven public and private utilities, the Police Department and the City Engineer. This committee is still in the organizing stages, having held two meetings, and hopes to be able to contribute some means of better serving the public through improved methods of construction coordination and dispensing of information from and to the public.

## F. SURVEYS AND MAPPING

### Subdivisions

The trend to condominium conversions, noted in last year's report, continued at an accelerated rate. This was emphasized by a proposal to convert Parkmerced, an apartment complex in the southwest corner of San Francisco, from a rental project to a condominium project. Since this complex contains 3483 dwelling units, with a significant percent of the tenants classified as elderly, the proposal attracted strong opposition. This was manifested in a public hearing held by the Planning Commission. The Commission's finding that the proposal, as then submitted, was in conflict with the Master Plan required its rejection by the Director of Public Works, the Advisory Agency.

The Parkmerced issue focused the social problems raised by condominium conversions. The search for practical solutions to these problems resulted in the imposition by the Board of Supervisors of a four-month moratorium on the conversion of apartment buildings containing 25 or more dwelling units to condominiums. This moratorium is scheduled to expire in the latter part of October 1974 if the Board of Supervisors does not elect to extend it for another 30 days.

Meanwhile, the Department of Public Works, the Department of City Planning and the City Attorney, through a committee, have been working on a revamped draft of the proposed subdivision ordinance to incorporate controls over and requirements for condominium conversions. Since this field is new, with minimal past experience or court decisions to serve as a guide, the task is not simple. The target is the enactment of a subdivision ordinance that would adequately deal with the problems of condominium conversions and would be in effect by the expiration date of the moratorium.

# STATISTICS

## A. DIVISION OF SURVEYS AND MAPPING

### 1. MAPS

#### a. Subdivision Map Act and Land Surveyors Act Activities:

Condominium Maps Approved and Recorded-----	15
Parcel Maps Approved and Recorded-----	5
Record of Survey Maps Examined and Recorded----	1

#### b. Street Actions:

Street Dedications-----	9
Street Vacations-----	17
Changes in Official Widths of Sidewalk-----	10

#### c. Survey Plots Prepared----- 17

#### d. Drawings Prepared for Studies Pertaining to Property, Street or Easement Actions----- 38

### 2. SURVEYS

#### a. Number of Surveys, etc----- 163

Public Assessment-----	8
Bureau of Engineering-----	134
Bureau of Architecture-----	14
Recreation and Park Department----	5
Municipal Railway-----	2

#### b. Extent of Surveys:

Topographic Surveys-----	155.2 - Acres
Design Data-----	18.7 - Miles
Construction Layout-----	19.6 - Miles
Post-Construction Examination----	1.1 - Miles
Earth Movement Observations---	6.6 - Miles
Block, Site and Lot-----	3.6 - Miles
Monument Lines-----	53.4 - Miles
Precise Level Network-----	48.4 - Miles
Miscellaneous-----	9.2 - Miles

#### Monuments:

Frames and Covers Reset-----	20 - Each
Examined, Repaired, Referenced	406 - Each

Bench Marks:

Established, Checked - 309 - Intersections

c. Number of Survey Parties----- 6

3. MISCELLANEOUS

Reports to City Attorney's Office-----	9
Investigations for and Reports to the Board of Supervisors Regarding Appeals from Decisions of City Planning Commission-----	9
Legal Descriptions for Deeds Prepared and Checked-----	82

B. DIVISION OF TRAFFIC ENGINEERING

1. PARKING METERS

New Installations	1649
New Installations in Public Parking Lots	272
Removals	607
Installations	240
Relocations	76
Temporary Removals	125

Total Number in Place June 30, 1974 - 15,360

2. MISCELLANEOUS INVESTIGATIONS

Written Reports to San Francisco Parking Authority	7
Parking Checks	11
Advisory Appearance and Conferences with San Francisco Parking Authority	15
Formal STOP and YIELD Sign Investigations	152
Formal Parking Control Investigations	134
Formal Traffic Signal Investigations	120
Other Formal Investigations	483
Auto Parking Station or Garage Permits	76
Miscellaneous Parking Checks	60

### 3. PAVEMENT PAINTING

Standard Striping, Miles	353
12-Inch Stripes, Feet (Crosswalks)	586,460
12-Inch Yellow Stripes, Feet (School Crosswalks)	133,379
Bus Zones, Feet	100,700
Parking Stalls (all types)	6,768
New School Intersections	1
Total School Intersections in Place June 30, 1974	959
Pounds of Relective Beads Used	50,000
8" Stripes, Feet	89,674
Spotting and Removing, Miles	47
Curb Painting, Feet	318,779
Taxi Stands, Feet	2,827

### 4. TRAFFIC AND STREET NAME SIGNS

Traffic Signs	COMPLETED
	1973-74
Parking Signs Installed	658
Parking Signs Repaired or Changed	884
Parking Signs Removed	819
Other Signs Installed	1,651
Other Signs Repaired or Changed	2,108
Other Signs Removed	657
Stop Signs Installed	462
Stop Signs Repaired or Changed	1,077
Stop Signs Removed	66
TOTAL	8,382
Special Signs Made by City Forces	1,752
Estimated Approximate Cost 1973-74	\$65,750
Estimated Total Number in Place June 30, 1974	43,827

#### Street Name Signs

Street Signs Repaired or Changed	474
Street Signs Installed	9
Street Signs Removed	2
TOTAL	485
Estimated Approximate Cost 1973-74	\$32,500
Estimated Total Number in Place June 30, 1974	5,844

## 5. TRAFFIC LEGISLATION

	COMPLETED	DELETED	NUMBER IN PLACE
	1973-74	1973-74	6-30-74
Stop Intersections	212	3	2,629
Through Streets, Miles	0	0	106.7
One-Way Streets, Miles	1.74	0.16	94.5
Speed Zones (other than 25)	0	0	69.7
Turn Restrictions (24 Hours)	31	0	
Turn Restrictions (Peak Hours)	2	0	
Tow Away, Block Faces	23	12	
Time Limit, Block Faces	56	11	
Angle Parking, Block Faces	15	4	
Other Turn Controls	9	0	
No Parking Any Time, Block Faces	20	1	
Items Discussed at ISCOTT	986		
Items Having Department Public Hearing	78		
Items to Board of Supervisors for Action	159		
Items Amending Traffic Code	12		

## 6. TRAFFIC SIGNALS AND CHANNELIZATION

	COMPLETED	NUMBER IN PLACE
	1973-74	6-30-74
Channelized Intersections		
Concrete Islands	7	289
Raised Pavement Bars	17	80
TOTAL	24	369
Signalized Intersections		
3-Light Installations	14	848
Equipped with Pedestrian Signals	20	311
Actuated Signals	1	196
School Flashing Signals	8	10
Pedestrian Overpasses (over City Streets)	3	22

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR

<u>DIVISION</u>	<u>JULY 1, 1973</u>	<u>JUNE 30, 1974</u>	<u>CHANGE</u>
ADMINISTRATION	4	5	+1
GENERAL ENGINEERING	122	126	+4
RECREATION AND PARK ENGINEERING	11	11	0
STREETS AND HIGHWAYS	41	38	-3
SANITARY ENGINEERING	70	78	+8
SURVEYS AND MAPPING	32	32	0
CONSTRUCTION	49	44	-5
TRAFFIC ENGINEERING	26	32	+6
TRANSIT TASK FORCE	<u>5</u>	<u>3</u>	<u>-2</u>
	360	369	+9

Employees in Professional Classification-----167

Employees in Technical Classification-----152

Employees in Clerical-----50

PAYROLL:

The following tabulation shows the number of employees and total payroll charged to General, Project and Road Funds:

<u>SOURCE OF PAYROLL FUNDS</u>	<u>EMPLOYEES 1973-74</u>	<u>PAYROLL 1973-74</u>
General Fund		
Budget Payroll	75	1,181,412
Project Funds (Gas Tax, Bond, General, etc.)	290	3,146,607
Road Fund - Traffic Engineering	33	387,513



## RETIREMENTS:

During the past year, the following employees were retired and recognition is given for their faithful service to the Organization:

FRANCIS R. NICHOLS	10.1.73	B234 Head Clerk	14 yrs
LOREN F. THOMPSON	11.1.73	6231 Sr St Inspector	11 yrs
DIANA KING	2.1.74	1446 Sr Clk Steno	30 yrs
FRANK ALBAN	2.1.74	6318 Const. Inspector	25 yrs
LAWRENCE R. SAMUEL	3.1.74	5360 Jr Civil Draftsman	25 yrs
DOLORES A. BUTTLES	4.1.74	1406 Senior Clerk	13 yrs
LEON SHEW	5.1.74	5364 Civil Engr Assoc I	27 yrs
MITCHELL ROTHENSTEIN	7.1.74	5362 Civil Engr Asst II	25 yrs
BENN S. MARTIN	6.28.74	5210 Sr Civil Engr	30 yrs
FRANK GIUSTO	6.28.74	5174 Admin. Engr	25 yrs

BUREAU OF ENGINEERING

SUPERVISORY PERSONNEL

As of June 30, 1974

Robert C. Levy, City Engineer  
John E. Cribbs, Assistant to City Engineer  
George Woo, Senior Engineer, Special Assignments

DIVISION & SECTION

PERSON IN CHARGE

STREETS & HIGHWAYS

Highways  
St. Improvement & Reconstr.  
Street Inspection

L. T. Tom, Engineer  
G. M. Wong, Associate Engineer  
Everett Hintze, Assoc. Engineer  
T. A. Pedersen, Street Supt.

RECREATION & PARK ENGINEERING

Engineering  
Landscaping

D. Martin, Sr. Engineer  
W. H. Person, Engineer  
H. C. Schmidt, Sr. Landscape Architect

GENERAL ENGINEERING SERVICES

Administration  
Office Management  
Steno Pool  
Utilities & Special Services  
Contract Preparation  
Structural  
Mechanical  
Electrical

W. J. Scruggs, Sr. Engineer  
H. G. Louie, Admin. Engineer  
J. Jelincich, Engineering Ass't.  
Elsie Kesler, Sr. Clerk Typist  
H. H. Beneke, Assoc. Engineer  
C. T. Jensen, Engineer  
G. T. Jeong, Sr. Engineer  
C. J. Brady, Sr. Engineer  
A. E. Tanner, Sr. Engineer

SANITARY ENGINEERING

Wastewater Treatment  
Mechanical Engineering  
Sewer System  
Wet Weather Control  
Administration  
Industrial Waste  
Grants

A. O. Friedland, Principal Engineer  
L. A. Vagadori, Engineer  
A. J. Rando, Engineer  
W. R. Giessner, Sr. Engineer  
T. F. Landers, Sr. Engineer  
A. Brandow, Assoc. Engineer  
J. M. Barron, Sr. Engineer  
H. L. Alcalde, Assoc. Engineer

SURVEYS & MAPPING

Administration, Records  
& Office  
Field Surveys

T. J. Ford, Jr., Sr. Engineer  
J. Pelayo, Assoc. Engineer  
W. Gee, Chief Surveyor

CONSTRUCTION MANAGEMENT

Contract Management  
Testing

W. C. Ewing, Sr. Engineer  
P. T. Meagher, Assoc. Engineer  
E. W. Pearson, Engineer

CONTRACT ADMINISTRATION

J. S. Barrett, Engineer

TRAFFIC ENGINEERING

Design  
Planning  
Operations

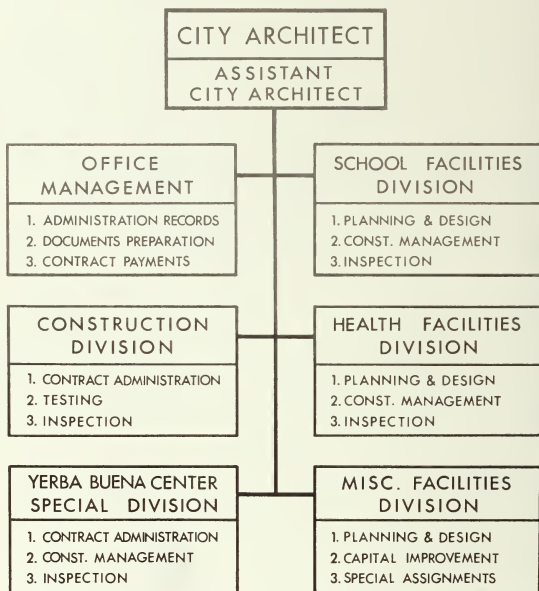
W. Marconi, Sr. Traffic Engr.  
G. R. Hansen, Assoc. Tr. Engr.  
R. J. Evans, Traffic Engineer  
N. E. Bray, Traffic Engineer

# BUREAU OF ARCHITECTURE

## DEPARTMENT OF PUBLIC WORKS

### ORGANIZATION CHART

JUNE 30, 1974



## BUREAU OF ARCHITECTURE

Charles W. Griffith, City Architect  
July 1, 1973 - January 31, 1974

Hugh W. Hiatt, Acting City Architect  
February 1, 1974 - June 30, 1974

The Bureau of Architecture supervises the design and construction of new public buildings, and the modernization and alteration of existing public buildings, under plans duly approved by the various City, State and Federal departments which are involved.

Once the need for a building project is established, the Bureau assists the requesting City department in the preparation of a basic program and the acquisition of a building site. The program consists of general information relative to the activities and services to be performed in the building, the number and type of employees who will be housed in the building, the number of public to be served, and related data. The Bureau then prepares sketches, specifications, and estimates of cost, and when funds are available, prepares, or supervises the preparation of the schematic, preliminary and final drawings, specifications, and estimates. Upon approval of the final documents, bids are requested by advertisement in the official newspaper, opened in public, reviewed and analyzed, and recommendations are prepared for award of the construction contract. After award and certification of the contract, Bureau personnel inspect the construction as it develops, certify monthly progress payments, verify that it has been properly constructed in conformance with the plans and specifications, and initiate the final payment to the contractor. The work which was being processed in the Bureau as of July 1, 1974, was as follows:

1. Plans and Specifications Stage (Estimate)	\$185,000,000
2. Work Under Construction (131 Jobs)	72,811,808
TOTAL	\$257,811,808

## ORGANIZATION

The organization of the Bureau is broken down into six separate divisions: Office Management, School Facilities Division, Health Facilities Division, Miscellaneous Facilities Division, Yerba Buena Center-Special Division, and Construction Division.

## OFFICE MANAGEMENT

### I. Administration Records

This section is responsible for personnel matters, all incoming and outgoing correspondence, dispensing information to contractors and architects, the operation of the Bureau's main counter, requisitioning supplies, equipment and related work.

### II. Documents Preparation

This section is responsible for the assembly and issuance of the contract documents to contractors, the filing of tracings, blueprints, and specifications, and related work.

### III. Contract Payments

This section is responsible for the preparation of documents authorizing payments for work performed by contractors and consultants.



## SCHOOL FACILITIES DIVISION

This division is responsible for all of the design work for the San Francisco Unified School District. This work is divided into five major categories: (I) City-District Bond Issues, (II) District Funds, (III) Field Act Earthquake Resistant Construction, (IV) Special Funds such as Federal or State Subvention, and (V) San Francisco Community College Design Section.

### I. 1964 SCHOOL BOND ISSUE

\$31,464,500

This bond issue is now complete and provided four completely new schools, major additions to four schools, two new buildings for City College, replacement of one elementary school, replacement of various temporary classrooms with permanent classrooms, and miscellaneous costs. The work was completed as of June 30, 1974, as follows:

A. Work Completed	97%	\$30,550,300
Thirty-two Projects		
B. Miscellaneous Costs	3%	914,200
Plans & Specifications and Unallocated		
	TOTAL	\$31,464,500



Far Left: Smith Hall  
Statler Wing at the  
City College of San  
Francisco. Left and  
Above: Two views of  
George Washington  
Carver School in the  
Hunters Point area.

Construction was completed on the J Eugene McAteer Senior High School academic, cafeteria and music buildings, the new gymnasium building and playfields.

Construction of the new Cabrillo School, the last project in the 1964 Bond Issue, was completed June 17, 1974.

## II. DISTRICT FUNDS

\$ 2,810,000

Construction is continuing on the new George Washington Carver School (Hunters Point South). Completion is scheduled for September 1974.

## III. FIELD ACT FUNDS - \$18,050,000 Tax Override and 1973 Bond Funds - \$37,826,000

A structural survey was made in 1970 of existing school buildings which were constructed prior to 1934. As a result of this survey, 62 schools were determined to be "unsafe" and therefore, not usable for school purposes after June 30, 1975. A program was subsequently started to design and reconstruct these 62 schools. The Board of Education approved a tax override which provided approximately \$4,000,000 a year to start the preparation of plans and to reconstruct several small schools and to eliminate the most obvious falling hazards; and also to construct new portables where existing schools were demolished.

In November of 1973, a bond issue was passed which provided nearly \$38,000,000 which, combined with the funds available from the tax override, provided a total of \$55,876,000 which was the estimated cost of all of the work.

The "unsafe" schools which comprise this program and their status as of June 30, 1974, is as follows:

### Construction Completed

- |                      |                        |
|----------------------|------------------------|
| 1. LeConte           | 5. James Lick Jr. High |
| 2. Marshall Annex    | 6. Aptos Gym & Shops   |
| 3. Paul Revere Annex | 7. Galileo East Wing   |
| 4. Winfield Scott    |                        |

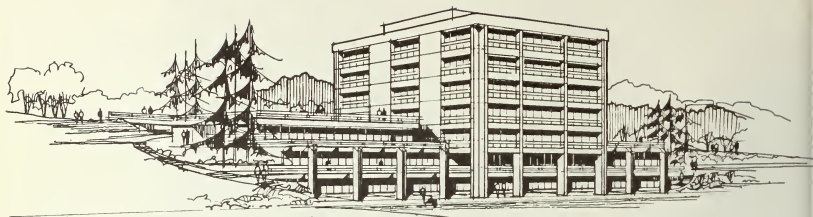
### Under Construction

- |                 |                          |
|-----------------|--------------------------|
| 1. Alamo        | 6. Treasure Island Annex |
| 2. Alvarado     | 7. Francisco Academic    |
| 3. Dudley Stone | 8. Aptos Academic        |
| 4. Lafayette    | 9. Horace Mann Academic  |
| 5. Sanchez      |                          |





Above: Model of the Downtown  
Community College to be located  
at 4th and Mission Streets.



NORTHWEST FROM FOOTBALL FIELD

### Design Underway

- |                       |                          |
|-----------------------|--------------------------|
| 1. Andrew Jackson     | 18. Mission Staging      |
| 2. Commodore Sloat    | 19. McKinley             |
| 3. Commodore Stockton | 20. Monroe               |
| Annex                 | 21. Raphael Weill        |
| 4. Daniel Webster     | 22. Sheridan             |
| 5. E. R. Taylor       | 23. Sherman              |
| 6. Edison             | 24. Sunnyside            |
| 7. Emerson            | 25. Sutro                |
| 8. Fairmount          | 26. West Portal          |
| 9. Frank McCoppin     | 27. Yerba Buena          |
| 10. Garfield          | 28. Everett Jr. High     |
| 11. Geary             | 29. Francisco Jr. High   |
| 12. George Peabody    | 30. Horace Mann Jr. High |
| 13. Guadalupe         | & Shops, Gym             |
| 14. Hawthorne         | 31. Presidio Jr. High    |
| 15. John Muir         | 32. Roosevelt Jr. High   |
| 16. Junipero Serra    | 33. Balboa               |
| 17. Marshall          | 34. Galileo East Wing    |

In addition to the above, the Chinese, Spanish, and Filipino Bilingual Centers are in the design stage.

### To Be Assigned

- |                         |                      |
|-------------------------|----------------------|
| 1. Bryant               | 5. San Miguel        |
| 2. Jefferson Auditorium | 6. Portola Jr. High  |
| 3. Madison              | 7. Pre-1933 Portable |
| 4. Parkside             | Bungalows            |

### IV. SPECIAL FUND PROJECTS

The Dr. Charles E. Drew School was completed in 1973. This school, in an impoverished area, was financed by funds granted under Senate Bill 28. Cost of the project was \$1,998,000.

Left: Rendering of Cloud Hall East, a Social Science classroom and laboratory building for the Community College District. Below: Dr. Charles R. Drew School.



## V. SAN FRANCISCO COMMUNITY COLLEGE DISTRICT

This section is responsible for all planning and design for the San Francisco Community College District which includes all new construction as well as alterations, additions and maintenance and repair projects.

### A. Projects Under Construction

1. The Science Building Alteration and Remodeling Project commenced in June 1973 is estimated to be completed in August 1974.
2. The Interim Student Health Facility Project commenced in November 1973, is estimated to be completed in August 1974.
3. The Radiologic Technology Laboratory Relocation and Alteration Project commenced in June 1974, is estimated to be completed in November 1974.

### B. Projects Pending Construction Award

1. The Social Science Classroom and Laboratory Building (Cloud Hall East). A six million dollar project was advertised for bids in June 1974; construction bids will be received in August 1974; and completion of this project is scheduled for late summer 1976.

### C. Projects in Design Stage

1. The Downtown Community College Education Center. A five and one-half million dollar project is presently in the contract documents design phase. Advertising for construction bids are scheduled for winter 1974 with completion of the project estimated to be winter 1976.

## HEALTH FACILITIES DIVISION

During the fiscal year 1973-1974, this Division was primarily engaged in preparing plans, specifications and estimates, inspection and contract administration for the alteration and modernization of Health Department buildings.

In addition, this division also provided contract administration and inspection for the new San Francisco Medical Center Project.

### I. SAN FRANCISCO MEDICAL CENTER PROJECT

San Francisco Medical Center Bond Issue	\$33,670,000
State and Federal Subventions	5,865.697

Total Project Funds	\$39,535,697
---------------------	--------------

A. Hospital Building	\$28,769,000
----------------------	--------------

The contract for this project was awarded June 9, 1971, and construction started July 26, 1971. Construction is approximately 75% completed.

The Hospital Building is a seven-story reinforced concrete structure with a gross finished floor area of 635,000 square feet and will provide 584 beds for medical, surgical and psychiatric patients with comprehensive ancillary facilities and services.





Above and Left: Three views of the new hospital building now under construction at the San Francisco Medical Center.





## B. Service Building

This building, the first construction phase of the San Francisco Medical Center Project was completed August 1972.

## II. ALTERATION AND MODERNIZATION PROJECTS

### A. San Francisco General Hospital

#### 1. Ward Lavatories Modernization \$14,585

This work provided new knee controlled faucets at existing lavatories, improving sanitation in the wards. Project was completed January 1974.

#### 2. New Partitions - Ward 93 \$ 5,277

This work included installation of movable office partitions and electrical work. Project was completed November 1973.



### 3. Additions to Emergency Facilities \$56,530

These additions included new partitions, lighting casework, flooring and painting to improve the functioning of the Emergency Room area. Project was completed January 1974.

### 4. Alterations to X-Ray Department \$30,704

This project included the remodeling of the X-Ray Therapy Room and the conversion of the Cobalt Therapy Room into an office and a Waiting Room into a Darkroom. Also included was air conditioning and ventilation of the darkroom and processing rooms, and alterations to the Special Procedure Suite. Project was completed November 1973.

### 5. Alterations to Transfer Switchboard \$ 7,488

The work included electrical alteration of the transfer switchboard in the Service Building. Project was completed June 1973.

### 6. Security Screens \$ 9,877

The work included security screens on windows and lighting, partition with doors, painting and electrical work to provide a security ward for prisoner patients. Project was completed November 1973.



7. Enclose Main Stairs - Building 90 \$11,727

This work includes the installation of smoke detection devices, and a partition with door on each floor which will enclose the main stairs from the occupied areas of the building. Work is 70% completed.

B. Laguna Honda Hospital

1. Alterations to X-Ray Department \$12,345

The work included lead shielding on walls, doors and frames and the installation of a concealed structural support for new diagnostic X-Ray equipment purchased by the Health Department. Also, included is new electrical service. Project was completed June 1974.

2. Range Hood Dry Chemical Fire Protection System \$ 4,257

The work includes a dry chemical fire protection system within the main kitchen range hoods of the hospital. Contract for this work was awarded May 1974.

3. Automatic Fire Sprinklers - Building K and M to Storage Spaces \$ 6,945

The automatic fire sprinkler system will be extended to areas of the ground floor of Building K. Contract for this work was awarded May 1974.

C. Central Emergency Hospital

1. Miscellaneous Alterations \$ 5,070

This work includes demolition, partitions, doors, painting and related electrical work for an examining and waiting room. Completion is scheduled for August 1974.



## MISCELLANEOUS FACILITIES DIVISION

This division is responsible for preparation of the Bureau Annual Capital Improvement Budget data sheets and provides most of the architectural services for Public Works projects other than those for Public Health and School Departments. Work for various City Departments was performed as follows:

### I. FIRE DEPARTMENT

A. Fire Department Bond Issues	\$4,945,040
--------------------------------	-------------

1964 Bond Issue  
1952 Bond Issue

Present status of Bond Program is as follows:

1. Completed (70%)	\$3,863,624
--------------------	-------------

(1) Headquarters Bldg.		\$1,152,650
(2) Engine Co. No. 28		246,796
(3) Engine Co. No. 26		300,607
(Old No. 7)		
(4) Engine Co. No. 1		477,512
(Old No. 17)		
(5) Engine Co. No. 43		396,426
(6) Engine Co. No. 31		74,139
(Old No. 46)		
(7) Engine Co. No. 14		344,573
(Old No. 36)		
(8) Engine Co. No. 9		558,262
(Old No. 37)		
(9) Engine Co. No. 33		301,788
(10) Memorial Plaque		10,871
(Headquarters Bldg.)		

2. Under Construction

Engine Co. No. 3	549,940
------------------	---------

3. Preliminary Study Phase

Engine Co. No. 4 (Old No. 8)	350,000
------------------------------	---------

Left: Service Building is now complete at the San Francisco Medical Center.

4. Funds Unencumbered (from completed jobs)	13,700
5. Funds Unencumbered (from jobs not completed)	74,177
6. Office Management and Contingencies	93,599
TOTAL	\$4,945,040

B. Fire Department - General

Firehouse for Engine Co. No. 13 (Old No. 1), corner of Sansome and Washington Streets. Site work under way in July 1974. This house is being built at no cost to the City to replace the present house on Drumm Street, which will be demolished to make way for the expanding Embarcadero Center.

Cost of Construction	\$1,064,750
----------------------	-------------



Above: New fire station for Engine Co. 33 located at 8 Capitol Avenue was completed during May 1974.

## II. SAN FRANCISCO POLICE DEPARTMENT

### A. Police Facility Security \$ 409,711

This appropriation (1972) covered work in Hall of Justice and nine district stations. Protective measures such as bullet-proof windows, keyless security locks, fencing, lighting, and surveillance equipment have been installed. At the end of June 1964, there was \$60,000 remaining, which is earmarked for Hall of Justice projects.

#### Projects done 1973-1974:

Mission Police Station	\$ 17,721
Ingleside Police Station	24,121
Richmond Police Station	40,440
Phase I Traffic Control	8,470
Traffic Bureau	5,984
Twin Peaks Communication	12,614
Hall of Justice Communication	15,728

### B. Other Police Facilities

Pistol Range - John Muir Drive, Lake  
Merced - Security measures, surveillance,  
equipment, etc., \$ 37,728

Police Stables - Golden Gate Park 20,000



Above and Right: New fire station for Engine Co. 37 viewed during construction and after completion.

Right: Model of  
a new fire sta-  
tion for Engine  
Co. 1, located  
at Sansome and  
Washington.



### III. YOUTH GUIDANCE CENTER

#### Court Security Measures - Two Projects

Phase I - Administration Building	\$ 6,893
Phase II - New Hearing Room	28,080

### IV. RECREATION AND PARK DEPARTMENT

#### A. Candlestick Park

Pavement Sealer	\$ 5,200
Roll-up Doors	9,929
Waterproofing	30,257

#### B. Reconstruction - Repair Projects

Gilman Recreation Center	\$ 33,500
Joseph Lee Recreation Center	101,800
Visitation Valley Fieldhouse	13,406

#### C. San Francisco Zoological Gardens

New Animal Hospital (80% Complete)	426,500
------------------------------------	---------

### V. MUNICIPAL AND SUPERIOR COURTS

Security Measures	\$ 50,400
-------------------	-----------

### VI. VETERANS WAR MEMORIAL

Opera House Carpets	\$ 17,350
Opera House Cyclorama	12,899
Veterans Building Fire Detection	8,740



Left: Construction of a new fire station for Engine Co. 36. Below: Alterations to Rm. 160 City Hall for Mayor's Dir. of Public Service.



## VII. SAN FRANCISCO LIBRARIES

Miscellaneous Alterations - Plans and specifications have been completed for the Richmond, Chinatown and Mission Branch Libraries. The work will be advertised for bids shortly.

## VIII. CONTROLLER

Electronic Data Processing Division - City Hall ground floor security and protective measures. Plans and specifications are approximately 10% completed. \$ 150,000

## IX. DEPARTMENT OF SOCIAL SERVICES

Administration Building \$6,250,000

This building will be located at 170 Otis Street, adjacent to the present building, 150 Otis Street. This will tend to centralize the departmental activities, which are now scattered throughout the City, on Bush Street and Mission Street, as well as Otis Street. It will also permit the removal of the old Bush Street departmental headquarters building and the expansion of the Sutter-Stockton Garage.

The new building will provide office space of 125,000 sq. ft. area and will house 800 Social Services employees, space for interviews and meetings, parking for 95 cars in the basement, and a Commission Meeting Room. Plans and specifications have been completed. Construction is now waiting for property acquisition.

X. RESTORATION OF THE OLD SOUTH SAN FRANCISCO  
OPERA HOUSE \$ 500,000

The City and County of San Francisco has obtained Federal funds for the restoration of the South San Francisco Opera House as a landmark. This structure, which was built along with a Masonic Hall in 1888, is located at 1601 Newcomb Avenue at Third Street. The City has acquired the whole block bounded by Newcomb, Mendell, Oakdale and Third Streets. In addition to the restoration, it is anticipated that the remaining portion of the block and adjoining Mendell Street will be developed as a park or urban plaza. The restored building will be used by residents of the Bayview-Hunters Point areas as a center for community activities. The job will be advertised for bids in July 1974 with bids to be received in August 1974.

XI. SHERIFF \$ 125,000

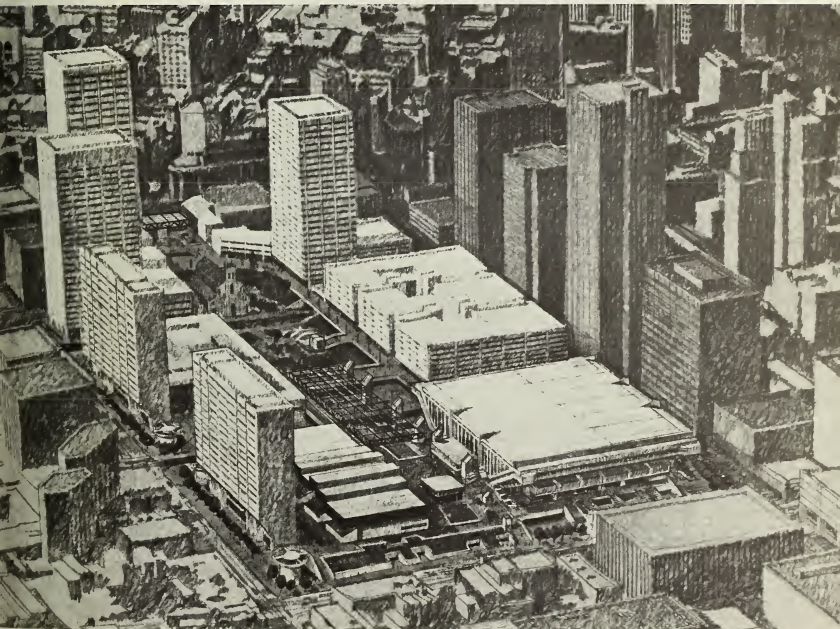
Showers for all cell banks - Plans and specifications are approximately 90% completed.





## YERBA BUENA CENTER - SPECIAL DIVISION

The Yerba Buena Center, Public Facilities, consisting of the Underground Garage, the Exhibit Hall, the Arena, the Central Power Plant and the Public Open Areas have progressed favorably through the various design stages. At present, the plans and specifications for Group II, "Underground Garage and Partial Exhibit Hall", Group III, "Convention Complex", Group IV, "Central Plant" with related Group VI, "Furnishings and Equipment", and the Public Open Areas have been prepared for bidding. However, the advertising for construction of these project groups is currently being deferred due to legal problems.



Left: Two views, three months apart, of the animal hospital and service building modifications now under construction at the Zoo. Above: Drawing of the Yerba Buena Center public facilities.

The May 1974 construction estimate for the project is as follows:

Group I Contract (City Preliminary Work)	\$ 3,783,000
Group II Contract (Underground Garage & Partial Exhibit Hall)	36,980,000
Group III Contract (Convention Complex)	71,624,000
Group IV Contract (Central Plant)	2,995,000
Group V Contract (Arena)	41,000,000
Group VI Contract (Furnishings & Equipment)	8,455,000
TOTAL	\$164,837,000

Because of the legal actions against the project, all of which must be resolved before commencement of construction, it is not possible to provide a definite construction schedule at this time. At present, Group I work is proceeding on schedule, Groups II, III, IV, and portions of Group VI are tentatively scheduled for bid advertisement this Fall with construction to start in early 1975. Assuming all litigation problems will be overcome and the revised tentative construction schedule is maintained, all work should be completed in the late Fall of 1978.

#### CONSTRUCTION DIVISION

This division supervises and inspects work under construction. The responsibilities of the Construction Division include inspection of work for conformance with contract documents, progress and validity of the contract work, contract payments and certification of completion of the contract. The Construction Division investigates and recommends disposition of contract claims.

This division is headed by a Senior Architect and there are two Architectural Administrators who assist him in the administrative responsibilities. The division also includes a Chief Building Inspector, who supervises the activities of sixteen Building Inspectors.

## BUREAU OF ARCHITECTURE

Supervisory Personnel  
as of June 30, 1974

City Architect . . . . . Charles W. Griffith  
(Retired 1/31/74)

Acting City Architect . . . . . Hugh W. Hiatt  
(Effective 2/1/74)

Assistant City Architect . . . . . Hugh W. Hiatt

### ADMINISTRATION

Management Assistant . . . . . Richard A. DeMartini

### SCHOOL FACILITIES DIVISION

Principal Architect and Division Head. Norman M. Karasick

Senior Architect . . . . . Francis L. Chinn

Architect . . . . . Orlando Orlandi

Architect . . . . . Gene Gee

Architect . . . . . Robert Appleton

Architectural Associate II . . . . . Richard Leong

Architectural Associate II . . . . . Jane Gee

### HEALTH FACILITIES DIVISION

Senior Architect and Division Head . . Robert J. Malerbi

Architect . . . . . Harry J. Squeri

Architectural Associate II . . . . . Peter Pira

Chief Building Inspector . . . . . William M. O'Neill

### MISCELLANEOUS FACILITIES DIVISION

Senior Architect and Division Head . . Clement A. Mullins

Architect . . . . . Arthur Lee

Architectural Associate II . . . . . William Tom

### YERBA BUENA CENTER - SPECIAL DIVISION

Senior Architect and Division Head . . Alexander S. Fadeff

### CONSTRUCTION DIVISION

Senior Architect and Division Head . . John R. Wilkinson

Chief Building Inspector . . . . . Robert J. O'Connell

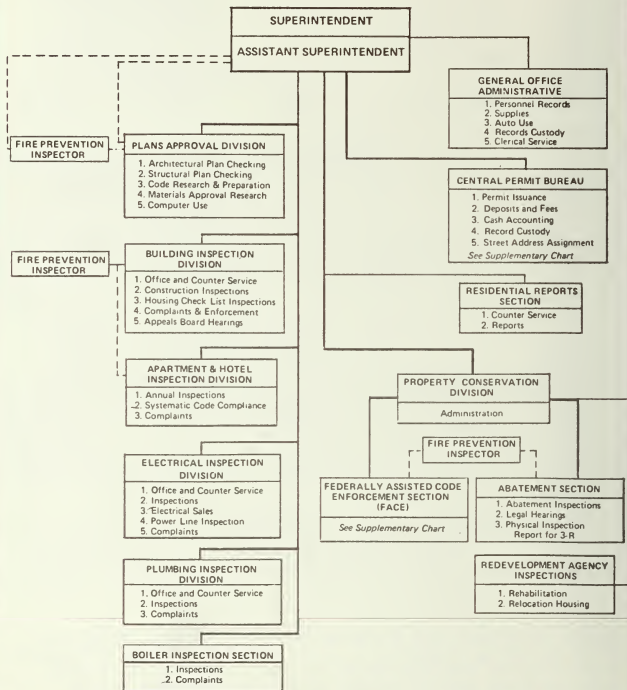
Architectural Administrator . . . . . Albino D. Giusto

Architectural Administrator . . . . . Lawrence Young

# BUREAU OF BUILDING INSPECTION

## ORGANIZATION CHART

June 30, 1974



## BUREAU OF BUILDING INSPECTION

Alfred Goldberg, Superintendent

### CONSTRUCTION ACTIVITY

With the completion of the large number of major hotel and office buildings during the last several years, the total estimated cost of buildings for which permits were issued declined to the \$200,000,000 level. It should be noted that the decrease was entirely in major buildings. Thus, the total number of permits actually increased when wood frame construction and alterations are included.

It should also be noted that none of the large volume of construction planned for the Yerba Buena Center is included in the estimated costs for this year. It is expected that this project will reach the stage of building permit issuance during the next year.

Plan checking and inspection services have been continued for various of the large number of Site Permits which were issued during the 1971-72 fiscal year. The Bureau is obligated to provide these services during the detail design and construction phases of Site Permit projects, although all fees were collected at the time the permits were issued.

### PLANS APPROVAL DIVISION

The Division was short one engineer for the first half of the fiscal year and two engineers for approximately the second half of the fiscal year due to more attractive State salaries. It is noted that the two engineers who left were key personnel with Structural Engineer Licenses and who left behind considerable checking work involving Site Permit addenda checking which had to be reassigned to a decimated staff.

Total amount of work in terms of number of building permit applications processed by Plans Approval Division was approximately 13% lower, with the dollar volume some 25% lower than previous fiscal year. However, a considerable portion (roughly 25%) of the available checking time has been and is still being used in the processing of addenda to Site Permits approved in previous years. Although minimal checking time was available for the processing of industry-generated requests for approvals in connection with new materials, new construction techniques, and new methods of design, some progress was made in providing service for many key requests which involved jobs under construction.

## PARAPET ORDINANCE ENFORCEMENT

Because of the short-staff situation and the inability of Civil Service to fill our personnel needs, the enforcement of the Parapet Ordinance has been held in abeyance. It is anticipated, however, that the new fiscal year will see the staffing, including staffing for the Parapet Section, brought up to its full complement through the advent of a forthcoming Civil Service examination for the new classification of Structural Engineer for Plans Approval Division

## ESTABLISHING STRUCTURAL ENGINEER CLASSIFICATION

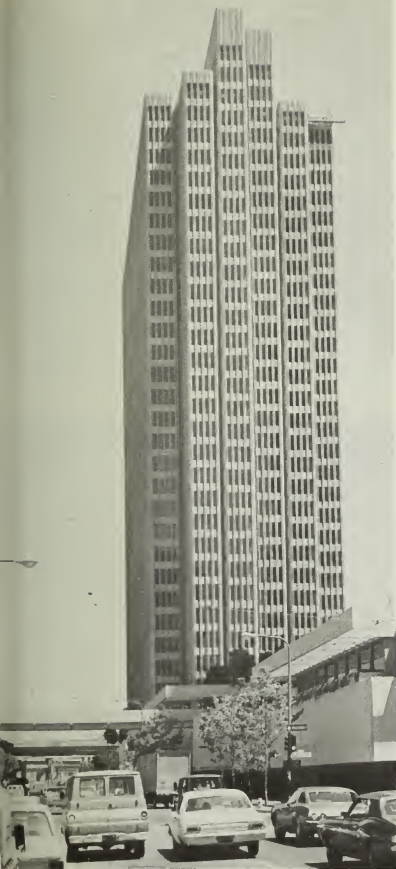
With the inability, over the past several years, of filling vacant Civil Engineering positions in the Bureau with qualified personnel a change was needed to provide service continuity to the construction industry. The establishment of a new classification, i.e. Structural Engineer with a 10% higher salary than Civil Engineer, was approved after a series of objections were made by unions representing existing classes. Strong support for the new classification by the construction industry was instrumental in the success in setting up the new engineering grades.

It is contemplated that one of the Structural Engineers to be hired will head the Parapet Section. As Civil Engineer positions become vacant, requests to reclassify the vacant position to Structural Engineer will be made. This would upgrade the technical level of the plan checking staff as well as provide personnel to fill positions more expeditiously since all on the list would be qualified automatically as contrasted with the Civil Engineer list that covers the entire spectrum of the profession.

## REORGANIZATION OF BUREAU OF BUILDING INSPECTION

Early in the fiscal year, the Superintendent developed a reorganization proposal for the Bureau of Building Inspection. This was based upon the fact that since 1957 the Bureau of Building Inspection, in both numbers of personnel and in the duties assigned to it by city ordinance and state law, has expanded enormously with no increase in management capability. The proposal developed by the Superintendent envisioned the establishment of a middle management level consisting of an Assistant Superintendent for Property Conservation, a Deputy





Left and Below: Two views  
of the Levi Strauss Building  
in the Embarcadero Center.





Superintendent, an Assistant Superintendent for Administration and a Building Code Analyst. In addition, in order to provide for updating the systems and procedures throughout the Bureau of Building Inspection and the Central Permit Bureau, a Senior Systems and Procedures Analyst would be added to the staff. Finally, four senior clerical positions would be established to provide continuity and experience at that level where the Bureau is sorely shorted in staff capabilities due to inadequate clerical staffing. See list of personnel in statistical data following.

In the reorganization, the duties assigned to the three major Deputy and Assistant Superintendents, would reduce the span of control now presently centered upon the Superintendent and would properly group the functions under conservation, on-line day-to-day inspectional activities, and administration. Accordingly, it is proposed, as shown in the table attached, that the Deputy Superintendent would have all the operating divisions of inspection including Building, Electrical, Plumbing, Boiler, as well as Plans Approval reporting to him directly and he would be directly responsible for their activities.



Above: Christian Brothers Winery Main Headquarters at Beach and Hyde Streets. Right: Bovet Building at Howard and Spear Streets.

The Assistant Superintendent of Property Conservation would be in charge of the Property Conservation Division and the Division of Apartment House and Hotel Inspections, both involving Housing Code enforcement and therefore concentrating the activities in that field under one management head.

The Assistant Superintendent for Administration would have all administrative personnel, budgetary and related activities under his jurisdiction. This would include the Central Permit Bureau, the Residential Report Section, and the microfilm activities. He would be in charge of all clerical personnel and all budget and fee determinations now presently handled by the Superintendent and Assistant Superintendent.

Originally, it was conceived that this would be presented as a supplemental appropriation to establish these positions in the 1973-74 year. It was forwarded through the Director of Public Works and approved by him and the Chief Administrative Officer. Upon receipt by the Mayor's Office, the supplemental appropriation approach was discarded and it was recommended by that office that the concept be approved and that "dummy" positions be placed in the 1974-75 budget



exactly equaling the amount of money needed for the proposed reorganization. Through the efforts of the Chamber of Commerce and its member organizations, such a proposal was carried through to successful completion; and the budget for the next fiscal year does contain, effective as of April 1, 1975, sufficient monies to provide for the reorganization.

Immediately after the beginning of the fiscal year, the replacement of the "dummy" positions by the real positions will be forwarded to the Board of Supervisors for their consideration and hopeful adoption. Simultaneously requests will be made to establish the new classes as well as the necessary reclassifications of the positions as noted in the Table of Organization to reflect the proper duties now attendant to the various positions.

The schedule at present would be for approval by September 1974 by both Civil Service and the Board of Supervisors of the proposed reorganization. The necessary examinations would then be held for the positions to be filled such that by the April 1st date the Bureau could begin under its new operational arrangement.

Failing to satisfactorily complete the reorganization, the Superintendent has decided that many of the activities of the Bureau presently undertaken by it with inadequate staff would have to be eliminated or seriously curtailed. This includes code revisions and possibly activities in the area of code enforcement programs such as FACE or RAP.

#### THE MICROFILM CONTRACT, BUILDING RECORDS OF THE BUREAU OF BUILDING INSPECTION AND CENTRAL PERMIT BUREAU

In the early part of the year, contract was prepared for all of the existing plans in the Central Permit Bureau stored in the basement and elsewhere in the Bureau, as well as all the permit applications to be microfilmed by an outside contracting firm. Bids were received and the low bid fell within the anticipated budget. The award was made to Graphics Service, a division of Addressograph - Multigraph Corporation. Work on the microfilm contract commenced in February 1974 with the contractor installing his equipment and staff in the basement of the building housing the records. By the end of the fiscal year, almost 250,000 plans had been microfilmed representing approximately 40 percent of the total number of plans on hand. Simultaneously with the photographing, indexes were prepared of the

location of the plan photographed on the roll of film. All this information was data-processed with printouts being made concurrently such that upon completion of photographing a batch of plans and the receipt of the data-processing printout, all existing plans so photographed could be destroyed. The printouts provide the location of any particular plan by roll and frame number for use by staff and public alike. It has been found that this method is extremely useful for all concerned and the public has been gaining access to the microfilmed plans at a greater rate than was previously available to it through the actual plans on file as it took much longer to locate or even determine whether such plan existed in our files.

It is anticipated that the filming of the plans will be completed approximately January 1975 at which time the contractor will then commence photographing all the applications on file in the Central Permit Bureau which will then complete the contract by approximately July 1975. At that time a complete changeover of the records system of the City will occur relying thereafter solely on the microfilm and aperture card files for all research and data.

Separately from the microfilm contract, the Bureau has purchased all the necessary equipment to develop on-line capability for both plan and application photography and duplication. Since February 1974 the Bureau has been photographing all plans for permits issued. This information is also being data-processed concurrently with that of the contractor. Therefore, all plans as they are issued are photographed and given to the Building Inspector and are not returned to the record filing system since the necessary microfilm recordings have been established.

The Division of Apartment House and Hotel Inspections commenced, using high school students, to photograph all of its 18,000 files representing the apartment houses and hotels in the City such that all their records will be placed on microfiche jackets. This will eliminate approximately 1/2 to 2/3 of all the filing space needed for their records as well as provide a security set to assure that there is no loss of documents. While this is a long-term project, it is anticipated that it can be completed by 1976-77.

Similarly, it is expected that starting in early 1974-75 the letter files in the Superintendent's office be microphotographed to reduce the volume of those extensive files.

Right: Panorama Apart-  
ments at Broadway and  
Webster Streets. Below:  
Konko Kyo Church at  
Bush and Laguna Streets.





## STATE LEGISLATIVE ACTIVITIES AND STATE AGENCIES

The State Legislature has been enacting legislation over the last three years increasing the amount of overlap between local government and state agencies. Furthermore, they have been, in the bills they consider, writing code at the legislative level rather than providing enabling legislation which would allow the use of the Uniform Building Code or equivalent. As a result, there have been serious problems developing with state agencies thru both the Legislature's code writing activities as well as the activities of state agencies duplicating code enforcement regulations and activities. These include the State Fire Marshal and the Division of Industrial Safety enforcing the California-OSHA regulations.

Serious concern exists throughout the State of California and including fire authorities over this new development at the state level which will result in serious overlaps and conflicts between local ordinances and state regulations. The Superintendent, acting through the California Chapter ICB0, will attempt to work with the Division of Industrial Safety to resolve that problem; but as with Federal OSHA, there is a serious lack of awareness on the part of the state enforcement authorities as to the scope of the problem and, in fact, as to the details involved in code enforcement at the local level.

The code activities of the State Fire Marshal will cause serious problems to the City of San Francisco particularly in the area of existing highrise buildings wherein they have the authority through state law to adopt regulations retroactively applicable to them. Working with the Chamber of Commerce of San Francisco, it is hoped that these regulations can be made realistic in their application to existing buildings.

The Department of Housing and Community Development adopted noise and energy regulations in February 1974 applicable to all new construction effective August 1974 and February 1975 respectively. The Commission of that department is aware of serious problems existing and deficiencies in the regulations and have been urged that they be rectified at an early date. At the close of the fiscal year, no such rectification was made. Therefore, problems will exist from lack of enforcement ability of the noise regulations which are due for enforcement on August 22, 1974, as well as with the energy regulations.

This is another example of the lack of awareness on the part of state officials as to what is needed for code enforcement activities when a mandated program is legislated into being and the regulations for such a program are to be developed. Unless such regulations are meaningful and enforceable, there is no way in which the Legislature's intent can be carried out. The blame for failure to enforce will be laid at the local building official's level since he is charged with said enforcement. It is the responsibility of state agencies, when charged by the Legislature to prepare regulations, that they do so in a way that will permit enforcement and not in a theoretical or impractical method or by utilization of regulations which are inadequate or incomplete.

#### FEDERAL LEGISLATION AND RELATED ACTIVITIES

Increasingly there has been a greater degree of activity of Federal agencies entering the code field. This is evidenced by the Occupational Safety and Health Act and Consumer Product Safety Act, as well as the Fire Prevention Act now being considered in Congress at this time. All of these areas will cause increased incursions into the building code field and will cause problems in this City and County resulting from overlaps and duplications of authority.

The Superintendent is active at the national level in all these areas, attempting to eliminate as much as possible the overlapping jurisdictional areas. It is too early to determine whether the actions taken by him, through the American Society of Civil Engineers in concert with other professional societies, will be effective but it is hoped so.



Below: John Muir Apartments on John Muir Drive.  
Bottom: United Irish Cultural Center at 45th  
Avenue and Wawona Street.



SUMMARY  
BUILDING PERMITS

TYPE OF CONSTRUCTION	1972-73 NO. OF PERMITS	1973-74 NO. OF PERMITS	1972-73 ESTIMATED COST	1973-74 ESTIMATED COST
Type 1	31	20	\$116,709,249	\$ 58,359,353
Type 2	1	1	3,846,919	2,500,000
Type 3	63	7	8,514,291	816,483
Type 4	17	26	934,400	1,127,935
Type 5	451	514	68,582,424	59,534,430
Alterations	<u>10,292</u>	<u>10,713</u>	<u>54,867,356</u>	<u>80,514,651</u>
TOTAL	10,855	11,281	\$253,454,639	\$202,852,852

Type 1 - Steel frame, reinforced concrete, or reinforced masonry structural elements. Fire-resistive construction.

Type 2 - Similar to Type 1, but with limitations.

Type 3 - Wood frame floors with exterior walls of concrete or masonry.

Type 4 - Light incombustible frame construction.

Type 5 - Wood frame construction.

# MISCELLANEOUS STATISTICS

	<u>1972-73</u>	<u>1973-74</u>
Inspections reported by building inspectors	36,569	32,975
Projects remaining on which permits have been issued that have not been reported completed by building inspectors	5,038	5,019
Complaints reported that have been adjusted by building inspectors	2,269	1,750
Inspections reported by boiler inspectors - total	2,266	1,746
Inspections of City boilers and air tanks (included in total)	125	95
Complaints received and adjusted - boiler and air tanks (included in total)	939	716
Complaints and requests for information recorded	2,468	1,932
Applications for permits examined and approved by Plans Approval Division	Buildings Signs	1,737 929
		2,137 693
Miles traveled during the year by vehicles on inspection service	385,038	491,100
Report of Residential Records	8,471	7,836

# PLUMBING INSPECTION DIVISION

1972-73    1973-74

## PERMITS AND FEES

Number of permits, combined work(Plumbing, water piping, gas, etc.)	2194	2500
Number of permits, plumbing only	895	952
Number of permits, gas only	5323	5419
Number of permits, water only	1704	1946
Number of plumbing permit issuance fees paid	2438	2967
Number of gas permit issuance fees paid	1726	2169
Number of water line permit issuance fees paid	3569	4068
Number of extra charge fees	366	449
Number of reinspection charge fees	65	48
Total Receipts for fiscal year	\$286,095.80	284,332.30

## INSPECTIONS

Number of inspection made(plumbing, water, gas, etc.)	15,445	16,360
Number of jobs finalized	5579	5684
Number of lockouts	1479	1079
Number of hours spent on fee exempt work	4108	3851

## COMPLAINTS AND ADJUSTMENTS

Number of complaints received	1280	1070
Number of complaint inspections	2564	2105
Number of Coroner's request for investigation	2	1
Number of condemnation reports	31	21
Number of work without permit found (penalty work)	108	103

## SEWERS

Number of building sewers installed	356	411
Number of building sewer traps replaced	46	23
Number of building sewers replaced or repaired	153	324

PLUMBING INSPECTION DIVISION  
(Continued)

1972-73      1973-74

PLUMBING FIXTURES, ETC.

Number of plumbing fixtures and water discharge	43,862	51,682
Number of sump ejectors	9	6
Number of grease interceptors	16	0
Number of rain water leaders	399	656
Number of water outlets (over 4)	74,142	93,983

GAS INSTALLATIONS

Number of gas lines installed, 1 outlet only	2275	2709
Number of gas outlets over 1	3612	3368
Number of gas conversions	15	64
Number of warm air furnaces	2328	2082
Number of water heaters	3074	3071
Number of miscellaneous gas appliances	4371	3051

## ELECTRICAL INSPECTION DIVISION

PERMITS AND FEES	<u>1972-73</u>	<u>1973-74</u>
Permits issued, wiring	9,693	10,198
Permits issued, signs	1,226	850
Electrical sales, licenses registered	2,153	2,273
Electrical contractors, registered	728	768
Plant owners, licenses registered	61	26
Electrical wiring and fixture - permit fees received	\$331,483.97	\$312,442.38
Electrical sign permit fees received	6,363.10	4,588.42
Electrical sales license fees received	55,700.00	40,909.25
Plant owners license fees received	3,900.00	3,000.00
Total receipts for Fiscal Year	\$397,447.07	\$382,089.83
INSPECTIONS		
Inspections made	32,745	32,434
Electrical surveys of multi-unit buildings for code compliance (DAHI)	838	589
Complaints investigated (found defective)	3,044	3,038
Jobs discovered without permit	101	110
Installations in progress as of June 30	4,439	4,736
Number of lockouts	1,384	1,262



ELECTRICAL INSPECTION DIVISION  
(Continued)

	<u>1972-73</u>	<u>1973-74</u>
Number of hours spent on fee exempt work	6,530	6,586
Wiring and fixture installations inspected and completed	9,962	9,662
Sign installations inspected and completed	1,492	889
Pinball machine inspections	110	64
Inspections of nursing homes and boarding homes for ambulatory aged	39	3
Night clubs, public assembly, dance halls, movie, theaters, etc. - inspections	90	40
Spray booth inspections	5	5
Massage parlor inspections	16	7
Specials (garages, parking lots, laundries, second-hand stores, etc.)	49	21
Citations to the District Attorney	65	36

# DIVISION OF APARTMENT AND HOTEL INSPECTIONS

	<u>1972-73</u>		<u>1973-74</u>	
No. of Structures Inspected-Inspection Orders turned in (Does not constitute total number of inspections made)				
Apartment Buildings	8,191		8,437	
Hotels	329		292	
No. Complete Inspections	692		879	
No. Structures Rehabilitated	554		465	
No. Structures "Picked Up" no previous Housing Files				
Apartment Buildings	Bldgs.	Units	Bldgs.	Units
Hotels	215	1,888	53	515
	1	7	2	18
No. New Buildings and No. Units Gained				
Apartment Buildings	104	899	76	2,266
Hotels	0	0	1	500
No. of Structures Reverted to Dwelling	24		24	
No. of Structures Demolished				
Apartment Buildings	Bldgs.	Units	Bldgs.	Units
Hotels	45	360	58	321
	5	125	10	464
No. Cases Abated	554		465	
With Building Permit	429		403	
Total Units in Substandard Bldgs.				
Last Total No. Legal Units				
No. Dwelling Units Brought Into Compliance				
No. Units Eliminated				
No. Units Gained				

A*	B*	A*	B*
<del>7,802</del>	2,931	<del>5,426</del>	5,539
7,891	7,891	5,449	5,453
190	96	100	91
279	56	135	10

A\* - As per original use.  
B\* - As per existing use.

No. Permits of Occupancy	Issued Revoked		Issued Revoked	
Apartment Buildings	1,780	112	1,689	134
Hotels	57	4	58	8
No. Principal Conferences	524		410	
No. Abatement Conferences	540		539	

# DIVISION OF APARTMENT AND HOTEL INSPECTIONS (Continued)

	<u>1972-73</u>	<u>1973-74</u>
No. Condemnation Cases - Recommended		
Apartment Buildings	506	404
Hotels	38	76
No. Building Permit Applications Received and Processed	2,209	2,256
No. Requests for Citation to District Attorney	1	7
No. Requests for Warrants	0	0
No. Complaints Received	847	624
No. Complaints Abated	681	567
No. Notices Sent	3,963	7,382
No. Potential Displacements		
Apartment Buildings	184	151
Hotels	90	78

# PERSONNEL

As of June 30, 1974

Alfred Goldberg, Superintendent  
W. A. Kastius, Assistant Superintendent

GENERAL OFFICE -	1	1408	Principal Clerk
ADMINISTRATIVE	2	1446	Senior Clerk Steno
	2	1444	Clerk Steno
E. Boney	5		
Principal Clerk			
PLANS APPROVAL	1	5210	Sr. Civil Engineer
DIVISION	1	5214	Bldg. Plans Engineer
	7	5208	Civil Engineer
M. Choy	1	5206	Assoc. Civil Engineer
Sr. Civil Engineer	2	6266	Sr. Plan Checker
	2	6264	Plan Checker
H. G. Fong, Bldg.	1	1424	Clerk Typist
Plans Engineer	15		
BUILDING INSPECTION	2	6334	Chief Bldg. Inspector
DIVISION	18	6331	Bldg. Inspector
	20		
R. McDonnell			
Chief Inspector			
ELECTRICAL INSPECTION	1	6250	Chief Electrical Insp.
DIVISION	17	6248	Electrical Inspector
	1	6252	Line Inspector
W. O. Maitland	1	1446	Senior Clerk Steno
Chief Inspector	1	1424	Clerk Typist
	21		
PLUMBING INSPECTION	1	6244	Chief Plumbing Inspector
DIVISION	7	6242	Plumbing Inspector
	1	1424	Clerk Typist
K. R. Lewis	9		
Chief Inspector			
BOILER INSPECTION	1	6238	Sr. Boiler Inspector
DIVISION	1	6236	Boiler Inspector
	2		
J. T. Edson			
Senior Inspector			

# PERSONNEL (Continued)

APARTMENT & HOTEL INSPECTION DIVISION	1	6124	Principal Food & Environmental Health Inspector
E. Orr	1	6122	Sr. Food & Environmental Health Inspector
Principal Inspector	12	6120	Food & Environmental Health Inspector
A. Chinn	1	1444	Clerk Steno
Senior Inspector	1	1424	Clerk Typist
	<u>16</u>		
RESIDENTIAL BUILDING RECORDS SECTION	1	B516	Sr. Clerk Typist
	1	1426	Sr. Clerk Typist
	1	1424	Clerk Typist
J. Farr, Sr. Clerk	<u>3</u>		
PROPERTY CONSERVATION DIVISION	1	5286	Chief, Property Conservation Division
	1	6334	Chief Bldg. Inspector
B. A. Cummings	10	6331	Building Inspector
Chief - PCD	3	6248	Electrical Inspector
	1	6242	Plumbing Inspector
A. S. Cole	2	6120	Food & Environmental Health Inspector
Chief Inspector	1	1446	Senior Clerk Steno
	1	1444	Clerk Steno
	1	1424	Clerk Typist
	<u>21</u>		
TOTAL BUDGETED PERSONNEL*	114		

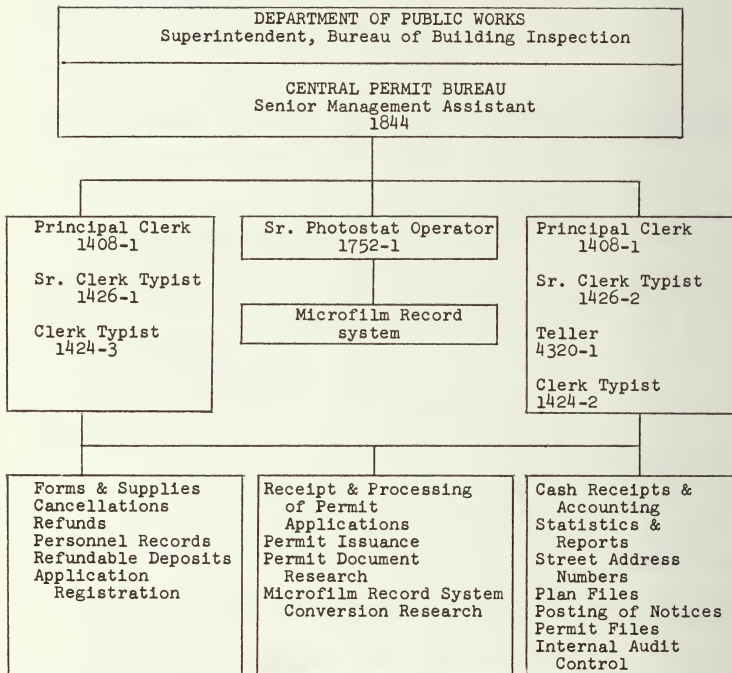
\*Does not include FACE/RAP positions.

## RETIREMENTS

During the past year, the following employees were retired and recognition is given for their faithful service:

ARCHIBALD, Robert E.	6331 Bldg. Inspector	12 years
KARPUS, Trenton	6331 Bldg. Inspector	7 years
STOLL, Morris	6248 Elec. Inspector	15 years
VAN WAY, George L.	6331 Bldg. Inspector	9 years

DEPARTMENT OF PUBLIC WORKS  
CENTRAL PERMIT BUREAU  
ORGANIZATION CHART  
June 30, 1974



## CENTRAL PERMIT BUREAU

Clyde Volens - Senior Management Assistant

The Central Permit Bureau is charged with the receiving, recording, and processing of applications for the various permits and licenses under the jurisdiction of the Department of Public Works, collection of the applicable fees, including extra charge and penalty amounts, and issuance of the permits. Included are permits covering each aspect of the erection, alteration, demolition and moving of buildings; permits for the various types of signs; permits involving the use or excavation of streets and sidewalks; and plumbing, gas appliance, boiler and electrical permits.

Departmental monetary receipts are received for deposit with the City Treasurer. Detailed accounting records are maintained as to revenue or non-revenue classification account number; records relative to receipt and refund of certain refundable deposit trust monies; records of certain Departmental receivables; and records for use in preparing of revenue estimates.

Claims for refund of permit fees paid are reviewed and processed in accordance with applicable code or other reference authorization. Uncollected receivables are transferred to the Bureau of Delinquent Revenue for further collection attempts, abandonment or compromise.

Reports prepared by the Bureau include building permit issuance statistics and divisional revenue receipts.

The Bureau maintains the official record of street addresses, which function includes assignments, changes, corrections and verifications.

Postings of notification of permit issuance are made on the premises of property affected relative to new buildings and structures, moving of buildings from one site to another, and for permits affecting a change of use of occupancy. Permittees are notified of appeals filed at the Board of Permit Appeals and of permit suspensions and revocations.

The Bureau is the custodian of Departmental permit records and of the official copy of building plans. Bureau personnel, because of the complexity of the books of records and indices and to protect the records, perform the research in making



these records available for inspection by the public. The records are in the process of being converted to a microfilm record system.

Applicable permit documents are processed in accordance with the regulatory program requirements of the California Coastal Zone Conservation Commission.

The Bureau responds to subpoenas by appearing at Court with official records as ordered.

In compliance with requirements of the State Strong Motion Instrumentation Program, the Bureau collects from permit applicants a fee of 0.007 per cent of the estimated construction cost for deposit in the State Treasury.

THE FOLLOWING TABLES ILLUSTRATE THE SCOPE OF THE  
ACTIVITIES OF THE CENTRAL PERMIT BUREAU

TABLE I

PERMITS ISSUED AND FEES RECEIVED

	1973-74		1972-73	
	PERMITS	FEES	PERMITS	FEES
Building Permit	11,275	\$ 484,237	10,924	\$ 537,399
Application Filing Fee	8,890	(Above)	9,224	(Above)
Demolition	453	9,259	464	8,360
Boiler Installation	151	2,852	113	1,353
Boiler Inspection	578	9,261	718	9,350
Street Space*	570	127,788	658	190,478
House Number	330	2,784	343	2,508
House Moving	4	80	1	20
House Moving Invest. Fee			1	15
Excavation (Pub. Util.)	14,311	28,622	14,918	28,836
Excavation & Curb (Other)	376	3,973	403	2,833
Partition Relocation	25	75	50	150
Flue	1,252	5,970	1,591	7,280
Posting Notice	275	743	302	809
Flower Market	44	1,632	50	1,728
Advertising	7	1,129	12	761
Survey	6	6,150	9	7,300
Engineering Inspection	130	59,007	191	59,116
Elec. Wiring and/or Fxtr.	10,090	314,442	9,730	331,504
Electrical Sign	854	5,193	1,237	7,428
Electrical Sales	2,276	59,150	2,120	55,700
Plant Owner	30	3,000	39	3,905
Plan Checking	3,028	184,481	3,082	233,221
Garage Door Coupons	425	1,275	575	1,725
Hearings - Code Variances	59	590	22	220
Hearings - Sub. Materials	1	150	2	300
Plbg. Fxtr. & Gas Appl.	10,126	282,261	10,483	281,393
Journeyman Plumber License**	146	1,285	681	3,595
Gas Appliance Dealer	22	550	36	900
Gas Appliance Workman	26	130		
Residential Inspec. Report	10	1,050	11	1,750
Residential Record Report	7,901	58,875	8,538	63,585
Industrial Wastes	3,073	68,058	2,979	132,004
Blasting	4	36	7	85
Sidewalk	1,381	11,959	1,027	10,529
Sub-Sidewalk Space*	13	77	11	55
Debris Box	6,750	13,740	9,100	18,200
TOTAL - TABLE I	84,892	1,749,864	89,652	2,004,395
TOTAL - TABLE 2	1,784	430,403	2,087	447,404
TOTAL - TABLE 3		17,482,606		19,508,778
GRAND TOTAL - PERMITS AND RECEIPTS	86,676	19,662,873	91,739	21,960,577

\* Permits and fees only. See Table II for Refundable Deposits

\*\* Discontinued February 1974

TABLE II  
TRUST FUND DEPOSITS

	1973-74		1972-73	
	PERMITS	DEPOSITS	PERMITS	DEPOSITS
REFUNDABLE DEPOSITS				
Street Space	*	\$ 21,250	*	\$ 25,100
Sub-Sidewalk	*	6,590	*	7,620
Deposit on Plans	1,275	61,540	1,647	58,989
Excavations	*	<u>138</u>	*	<u>1,425</u>
	1,275	<u>\$ 89,518</u>	1,647	<u>\$ 93,134</u>
* Street Space, Sub-Sidewalk and Excavations require both a fee and a deposit. Amounts shown are deposits only.				
PARTIALLY REFUNDABLE DEPOSITS				
Side Sewers	210	\$244,550	192	\$224,910
Side Sewers - Excess Costs		<u>18,013</u>		<u>19,011</u>
	210	<u>\$262,563</u>	192	<u>\$243,921</u>
AGENCY DEPOSITS				
Street Improvement Bonds	299	\$ 64,738	248	\$ 91,405
State - Strong Motion Program		<u>13,584</u>		<u>18,944</u>
	299	<u>\$ 78,322</u>	248	<u>\$110,349</u>
TOTAL TRUST FUND DEPOSITS	1,784	\$430,403	2,087	\$447,404

TABLE III  
OTHER RECEIPTS

	1973-74	1972-73
General Fund	\$ 7,252,344	\$10,287,180
Special Gas Tax - Street Improvement Fund	6,455,027	5,520,589
Road Fund	3,702,685	3,639,924
State Highway Trust Fund	21,334	19,491
Various Funds	<u>51,216</u>	<u>41,594</u>
	\$17,482,606	\$19,508,778

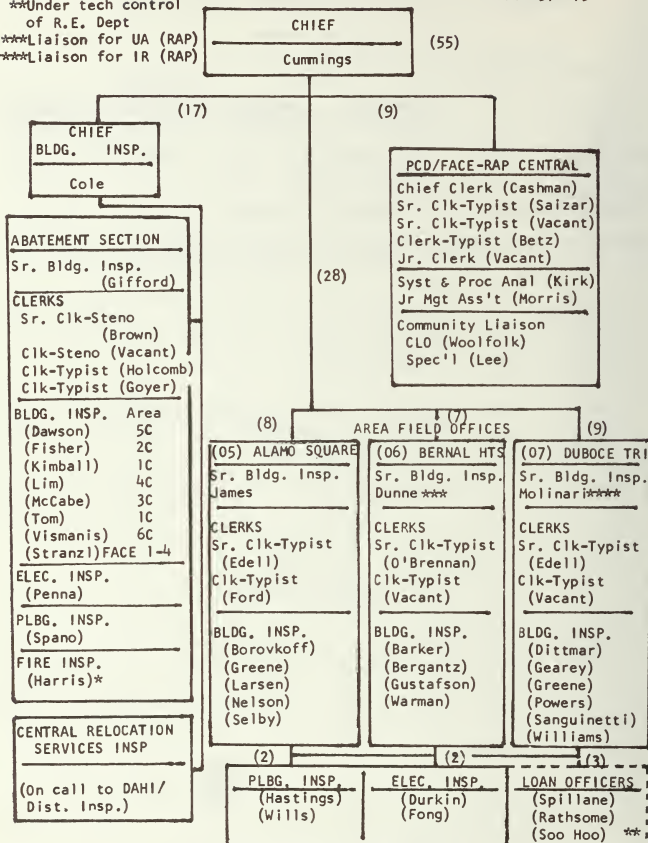
TABLE IV  
STATEMENT OF CONDITION - PRIVATE TRUST FUNDS  
As of June 30, 1974

	BALANCE 6-30-73	DEPOSITS 1973-74	TRANSFERS & REFUNDS 1973-74	BALANCE 6-30-74
Excavation	\$ 5,843	\$ 138	\$ 263	\$ 5,718
Street Space & Sub-Sidewalk	181,637	27,840	44,152	165,325
Plans & Specifications	30,028	61,540	55,270	36,298

PROPERTY CONSERVATION DIVISION  
(PCD)

FY 1974-75

\*Consultant  
\*\*Under tech control  
of R.E. Dept  
\*\*\*Liaison for UA (RAP)  
\*\*\*\*Liaison for IR (RAP)



(Not shown: Depts/Offices which provide support: Real Estate; City Plng;  
City Att'y; Bur Accts (DPW); City Engr. Also, S. F. Redev. Agcy provides  
reloc svcs on "per move" basis.

BUREAU OF BUILDING INSPECTION  
DIVISION OF PROPERTY CONSERVATION

CONCENTRATED CODE ENFORCEMENT PROGRAM

Neighborhood Rehabilitation Progress

and Citizen Involvement

In the Improvement Plan for Residence, as prepared by the Department of City Planning, and adopted by the City Planning Commission, FACE-type concentrated code enforcement was strongly supported and recommended to be continued and given full support "to avoid the need for large-scale clearance, rebuilding and rehabilitation". The recommendations for implementing the residence element of the Comprehensive Plan was endorsed by the Planning Commission of February 7, 1974 (Resolution No. 71-40).

The Comprehensive Plan for Residence. This plan incorporated the following objectives and policies as related to code enforcement/rehabilitation activities;

Objective 1. Maintain and improve the quality and diversity of the City's residential communities. It suggest(s) that renewal through rehabilitation be applied without large - scale residential clearance.

Objective 1/Policy 1. Adopt a neighborhood maintenance approach in the redevelopment program. Because of such conditions as persistent low-vacancy rates, increasing high land and construction costs, and unique quality of many housing neighborhoods . . . highest priority should be placed on rehabilitation . . .

Objective 1/Policy 2. Make extensive use of Code Enforcement (to maintain and improve the diversity of the City's residential communities).

It further states that, basically, there are two types of code enforcement programs:

(1) Citywide type deals with multi-unit buildings to maintain basic health and safety standards.

(2) Selected areas concentrates on single - and multi - unit structures.

Objective 5/Policies 1 & 2. Encourage and provide more effective means and opportunities for citizens participation/involvement in planning and programming of public improvements (e.g., street resurfacing, undergrounding of utilities, reconstruction of streets, curbs & gutters, sidewalks, planting of street trees, etc.).

It further states, as a matter of policy, that the City "should continue to apply Systematic Code Enforcement & should strengthen the Program" and, in regard to Concentrated Code Enforcement (CCE), indicates that "This (CCE) approach is particularly suitable to San Francisco and should be extended to more residential communities in the City".

The Department of City Planning, in December 1973, published a report (hereinafter referred to as the RSP Report) entitled: "Residence,

Strategy and Programs - Recommendations for Implementing the Residence Element of the Comprehensive Plan of San Francisco." The San Francisco Planning Commission, by Resolution No. 71-40, dated February 7, 1974: (1) "endorsed" the report "with the understanding that the figures related to future Federal funding are tentative estimates and that priorities may have to be reconsidered", and (2) "Authorize(d) the Director of Planning to take all reasonable steps to attain implementation of the strategy and programs described (therein)." This RSP Report, among other things, recommended:

(1) "Expand(ing) efforts to reverse and prevent neighborhood deterioration" - stating: "This would require increased annual administrative and inspection funding, larger amounts of low-interest home improvement loans, . . . additional funds for neighborhood improvements, hardship loans and relocation assistance."

(2) "Shift(ing) the focus of the redevelopment program to neighborhood maintenance and housing rehabilitation" - indicating "additional funds (would) be needed to expand activities to include rehabilitation of scattered cities in RAP areas and to incorporate other actions in support of the Rehabilitation Assistance Program . . ."

(3) "Encourag(ing) the rehabilitation of scattered buildings having substandard conditions."

(4) "Provid(ing) special measures to preserve, improve and expand the . . . supply of low to moderate income housing, particularly for families, "by such actions as "rehabilitation."

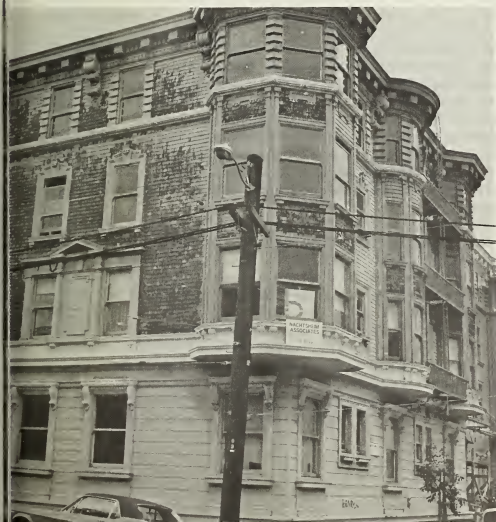
(5) "Minimiz(ing) displacement and provide adequate rehousing services by adopt(ing) relocation ordinance to assure rehousing services for residents displaced by local public action."

The Comptroller General of the United States, in his report of June 26, 1972, to the Congress, "Enforcement of Housing Codes: How It Can Achieve the Nation's Housing Goals," emphasized the need for effective local code enforcement. The report concluded that "Housing deterioration and decay have not been arrested because communities have not enforced housing codes effectively". In addition, the report stated that, "In HUD's (U. S. Department of Housing and Urban Development) opinion, the code enforcement program has become a steadily more productive means of conserving the nation's housing supply". The report further stated that "The Congress also recognized that an important further step (in achieving the "Nation's housing goal of a decent and suitable living environment for every American family") was the preventive approach--saving houses before they could deteriorate into slum condition and promote neighborhood blight. Thus, under the Housing Act of 1954, the Congress directed the Federal Housing program include . . . conservation and rehabilitation of blighted, salvageable area".

The report goes on to say that "To further emphasize the preventive approach, the Congress approved two programs: First, to be eligible in certain HUD programs, communities must show progress . . . (in) adopting and enforcing housing codes (local code enforcement) to reduce the rate of deterioration . . . ;" and, "Second, Federal financial assistance was authorized . . . to assist in intensively enforcing housing codes in selected areas (Code Enforcement Grant Program)".

A concentrated code enforcement program was initiated by the City in





Left and Above: The Duboce Apartments, largest wood-frame apartment structure in the City, before and after rehabilitation. Work was financed by a three per cent, twenty-year loan. In the above photo, an awing can be seen which forcefully marks the new entrance.

1959, but it was not until 1966, when the FACE (Federally Assisted Code Enforcement) Program was started in the City, that there was the true so-called concentrated code enforcement.

The Department of Public Works and the Department of City Planning work together on planning concentrated code enforcement programs. Meetings co-sponsored by City Planning and neighborhood organizations are held in areas where there is citizen support or where housing deterioration is evident. An attempt is made through public meetings to get both owners and tenants involved. In most cases FACE programs have been conducted only after major groups and organizations in the area have joined in support of the program.

All property owners receive mailed notices of the meetings. Meeting notices are also distributed door-to-door throughout the area. Residents are urged to "sign-up" as volunteers for Citizens Advisory Committees (CAC).

Periodic community meetings are held by the Advisory Committees to explain the status of the program(s) and to ascertain problems which might have arisen. Committees sponsor house tours to show the results of the program instead of talking about them. The Committees also publish circulars and newsletters and conduct polls regarding their improvement planning ideas. This feedback can result and does result in modifications of the City's plans. Property owners are assisted in their rehabilitation work by a City Building Inspector, who handles the job from initial inspection through specification preparation, bidding, contract award, and progress and final inspection. He is assisted by trained Plumbing, Electrical, Fire, and Health inspectors.

Another key element in the administration and operation of the FACE and RAP programs is the Real Estate Department which City office is responsible for the administering of the rehabilitation loan and grant program. They have assigned loan officers located in the area offices and in the Department's Central office. A list of qualified loan officers has been established by the Civil Service Commission and, as of July, 1974, up to 4 permanent loan officers will be employed (normally 3 in the field and one in the Real Estate Department central office). One of the 3 field loan officers will be assigned exclusively to develop the RAP loan financing program.

Other City organizations significantly involved in the FACE and RAP programs are the City Attorney, who also is directly involved in abatement throughout the City (in addition to FACE & RAP areas). That office reviews all cases and processes those in which the owner, for instance, is not correcting the code deficiencies satisfactorily. The City Attorney attempts to obtain compliance through personal contact and formal correspondence and, only when necessary, takes more stringent action by taking the case to court. The City Engineer becomes involved in the preparation of plans, specifications, and contracts, including advertising for bids, awarding of contracts, inspections and other related functions, concerning such public improvements in the FACE areas

and RAP areas as street tree planting under contract (not by FORCE account), undergrounding of utilities, street resurfacing and reconstruction, street lighting, and other such improvements. The Bureau of Street Repair also has been involved in the FACE program through the resurfacing of streets, using their own labor crews. The processing of transactions and maintenance of the accounts showing the expenditures and obligations for both Federal and City funds involved in the FACE and RAP projects is handled by the DPW's Bureau of Accounts. As illustrated, the FACE and RAP programs, where possible, have been administered using the established City structure, augmenting only when latter was/is not in position to provide the service.

On June 30, 1974, the City's FACE program, which was created in 1966 within the Division of Property Conservation, completed over seven (7) years of rehabilitation work in its first 2 phases (FACE Areas 1-4 and 5-7, respectively.) This project, consisting of the 7 areas, has been under one basic contract with HUD, with 7 amendments to date and as indicated below, an 8th Amendatory/budget #9 have been forwarded in June 1974 to HUD for approval. The contract, which was to expire June 30, 1974, was extended by HUD on June 18, 1974, to January 1, 1975.

Although the Federal Government did not provide any new monies in FY 1974 (nor apparently are any approved for FY 1975) to continue the FACE program, HUD has:

(1) Extended the program in FY 1974 to June 30, 1974, and in June 1974 further extended the program for the currently active 3 remaining FACE areas ((05) Alamo Square, (06) Bernal Heights, and (07) Duboce Triangle) to January 1, 1975 (actually HUD was requested to extend the program to June 30, 1975).

(2) Provided, of the 10% holdback (\$572,666) pending 95% completion of the 7 FACE areas (the 1st 4 areas: (01) Arguello Park, (02) Buena Vista Heights (03) Glen Park and (04) Great Highway, were closed out in 1970 but all 7 areas are under one basic HUD contract, as amended), \$243,463 due to completion of the first 4 areas. These Sec 117 funds were used to defray the administrative and operating costs of the FACE program essentially during the period from about Nov. 27, 1973 thru March 1974. The balance of the 10% holdback (\$329,203) will be forthcoming upon attaining the 95% completion (mentioned above & further described later in this section) and being successfully audited by HUD.

(3) Indicated by letter of June 18, 1974 that an additional \$420,000 (apparently recaptured by HUD from previous appropriated funds) was available to the City/actions to be taken:

a) The funds were for both Sec 117 needs (administration & operations) and Sec 115 requirements (rehabilitation grants).

b) An amendatory (to the contract) and a budget revision were to be submitted.

c) The current contract, which was to terminate June 30, 1974, was extended to January 1, 1975.

By letter of June 28, 1974, the City advised/requested HUD:

(1) There was no requirements for additional Sec 115 Grant funds, therefore the \$420,000 should be applied against the City's Sec 117 needs.

Below and Right: The lobby of the Duboce Apartments was fully restored. A previous remodeling had eliminated it and added the space to two apartments. With only a side door entrance and a narrow winding hallway, much rental appeal was lost. Bottom Left and Right: Modern kitchens were also installed throughout the building.





(2) Approve the proposed amendatory No. 8 and Budget No. 9, which apportioned the entire \$420,000 among the various Project Cost (Sec 117) line items and subject to approval of the City, and return the HUD proposed amendatory contract and budget revision to the City for approval (by resolution) by the Board of Supervisors/Mayor.

Prior to the end of FY 1972-73, it became known that, since sufficient Federal Sec 117 (Administrative/operational) funds were not to be available to meet FY 73 needs, City appropriated funds would be required. As a result, a supplemental budget was submitted and approved by the City, but only about \$10,000 was finally expended thru June 30, 1973. For FY 1973-74, a full year's budget was submitted, but was subsequently returned without action with instructions to submit a budget covering only 4 months (July-October 1974) and to be austere. A budget was submitted and was approved which, due to the austerity actions taken, met needs through almost 5 months (to Nov. 27, 1974). In November 1973, as directed, a revised 8 months budget (by month) for period Nov. 73-June 74 was submitted and totalled approximately \$681,000 or about \$85,000/month average, with the last 4 months (March-June 74) averaging almost \$89,000/month. This budget was not acted upon.

As stated earlier, HUD provided over \$243 thousand of the 10% holdback, which financed the program from end of Nov. 1973 to about April 1, 1974. A supplemental was submitted to cover the balance of the fiscal year, which was approved on a month-to-month basis, and totalled approximately \$282,674.

For FY 1974-75, a City-supported budget was submitted on the premise(s) that:

- 1) No new Federal administrative/operating funds would be available, but possibly balance (\$329,203) of 10% holdback may become available.
- 2) The 3 active FACE areas (areas 5-7) would be completed in CY 1975.
- 3) Two RAP areas ((08) Upper Ashbury and (09) Inner Richmond) would be started.

The budget approved by the Board of Supervisors/Mayor was as follows:

- a) Total budget . . . . . \$879,579
- b) City's share - this would fund program to about February 1975 . . . . . (550,376)
- c) Federal share - premised & based on 95% completion of areas 5-7 on timely basis to receive balance of 10% withheld . . . (329,203)

In January 1970, applications were submitted to HUD to establish the areas known as (08) Upper Ashbury and (09) Inner Richmond as FACE areas. However, due to the decision to phase out such designated programs as FACE, the applications were returned in April 1973 without action.

Due to the above stated decisions and actions, and, as stated earlier, the RAP Program was initiated by the following actions, including the designations of the Upper Ashbury and Inner Richmond areas as RAP areas:

Resolution No. 426-73 (file 217-73), dated June 22, 1973. Authorized

the City and County of San Francisco to establish a housing rehabilitation financing program for use in conservation areas designated under the San Francisco Housing Code.

Marks-Foran Residential Rehabilitation Act of 1973 (SB 1438), Oct. 2, 1973, authorizes issuance and sale of revenue bonds and bond anticipation notes not secured by taxing powers of local agencies for purpose of making loans for residential rehab, as defined.

Proposition G, Charter Amendment, which was approved by the electorate on November 6, 1973, authorizes the issuance of bonds to provide funding of loan program to assist property owners to rehabilitate property in designated rehabilitation assistance areas.

Ordinance No. 23-74, Jan. 9, 1974, added Chap. 32 by amending the Administrative Code & provides for establishment of a rehabilitation loan program and policies and procedures for its administration and financing.

Resolution No. 704-73, Oct. 19, 1973, authorizes the City Attorney to contract with Bond Counsel for services in connection with issuance of residential bonds.

Resolution No. 357-74, May 16, 1974, designated the Inner Richmond as a residential rehabilitation area under said Chapter 32.

Resolution No. 424-74, June 6, 1974 designated the Upper Ashbury as a residential rehabilitation area under Chap. 32 of the San Francisco Administrative Code.

The RAP Program, in essence, is patterned after the FACE Program and on the Norfolk (Va) plan, established in May 1972, because of the "drying up" of available Federal FACE funds.

Under the FACE Program, the Federal Government has provided Sec 312 loan funds at 3% interest. Under RAP the City will issue bonds and, on an annual basis, the financial institutions (successful bond/note bidder) hereinafter called the "Bank" will "buy up" bonds commensurate with the City's programmed (estimated) projections of loan requirements. The interest rate is "not to exceed the then current prevailing market rate for Aa rated 10-year general obligation securities." The Bank reinvests "surplus" funds available in short-term government securities, with monies earned from such investments (or from payments on the rehab loans) being used to establish a hardship loan fund and a relocation assistance fund.

The City will establish a reserve fund in amount of 50% of maximum annual debt service payable in any one year, and will be taken off top of loan to City. This will be placed in an interest bearing account. Also, the City will pledge, as security for money borrowed, deeds of trust for loans the City holds, a "Special Fund" consisting of monies received in loan repayments, and funds in the bad debt reserve, which is to be established off top of loan but gradually maintained by loan repayments and funded from portion of interest paid by property owners.

As of June 30, 1974, the total budget and cost of the project (since its inception in September 1966) is as follows:

	<u>Budget</u>	<u>Expenditures/ Encumbrances</u>	<u>Balance</u>
1) Administration and operations (expended & obligated):			
a. Sec 117 & local funds (Administration/operations costs), including land acquisition costs and public improvements costs . . .	\$8,589,994	\$ 8,509,874	\$ 80,120
b. Supplemental City budget expenditures (Expended \$450,078, encumbered \$60,308) . . . . .	630,840**	510,386	(\$120,454)**
c. Total . . . . .	\$9,220,834	\$ 9,020,260	\$200,574
2) Relocation grants . . . . .	803,500	480,897	322,603
3) Rehab grants (Sec 115) . . . . .	896,085	833,440	62,645
4) Rehab loans (Sec 312) . . . . .	None***	\$12,688,650	**

As of June 30, 1974, there have been 958 Sec 312 loans made, valued at \$12,688,650 and 345 Sec 115 rehabilitation grants, valued at \$833,440 for property in all seven FACE areas.

Although the Federal Government did not provide any new monies in FY 1974 to continue the FACE program, the extension of the existing FACE contract to January 1, 1975, and the possible provision of an additional \$420,000 from previously appropriated funds will permit the continuing obligation and expenditure of these and previously budgeted, unexpended funds to January 1, 1975. Another request for extension of the contract to June 30, 1975 (or later) will again be submitted prior to June 1, 1975.

As of June 30, 1974 (excluding 171 cases in litigation which are considered out of the workload - see below), 86.4% of the buildings in Areas 1-7 were SCC'd.\*\*\* The charts at end of this section (headed: Status - Progress Workload) depict the status of completion of Areas 1-7 as of June 1974 as measured against the HUD 95% objective. In regard to the HUD objective of obtaining 95% completion (SCC'd) in all 7 FACE areas in order to satisfactorily complete the project and obtain the balance of the 10% holdback funds, informal discussions with HUD indicate that, as an example, the following formula may apply to the 95% objective:

\*Thru Budget #8. Proposed Budget #9 was submitted to HUD in June for distribution of additional \$420,000 in Sec 117 funds, as discussed earlier.

\*\*None of these funds available since the account has been liquidated.  
\*\*\*Rehab loan requirements are not budgeted. Loan funds are approved/obligated upon approval of the loan(s) by HUD.

\*\*\*\*SCC'd: Satisfactory Code Compliance, which can be attained by a building meeting any one of 3 conditions being "Found Standard" at time of initial inspection, by rehabilitation to code, or by demolition of the structure.



1. Total buildings in 7 areas.
2. 95% of Item 1.
3. After determining Item 2, subtract (as of close out date; e.g., June 30, 1975):
  - a. Cases in City Attorney's Office and not working.
  - b. Cases under Abatement Appeals board (AAB) - see below.

The 95% objective in the 2nd bar (line 2) of each of the 3 charts shows, without any reductions, the 95% objective against the total building in the areas shown.

The 95% objective in the 3rd bar (line 3) reduces the 95% objective by subtracting those cases in litigation (referred to as "true" cases) as follows:

(1) Those cases in which the Abatement Appeals Board has granted either a Lifetime Moratorium, a deferment (no rehabilitation work need be done) or an extension of time (work has to progress and be completed by end of extension period) beyond June 30, 1974, which is considered as the earliest date the 95% objective can be reached.

(2) Those cases which are assigned to the City Attorney's Office and are not working, i.e., work has either not started or has stopped as of June 1974. This is a variable and will change from month to month but believe the figures shown for this "variable" will be of about the same magnitude as of June 30, 1975.

Areas 1-4. (See status chart). There is a total workload of 2988 buildings in the 4 areas, which have been closed since 1970 from a HUD standpoint, but the remaining 78 incomplete buildings are being handled by the Abatement Section, PCD. Of the 2988 buildings, 2909 (97.4%) have been completed (SCC'd) and, based on the 95% objective less the "true" litigation cases described above, the objective has been exceeded by 100 SCC'd buildings. This "credit" can be applied to shortages (of completions) in Areas 5-7 and is reflected in the combined status completion for Areas 1-7 shown below.

Areas 5-7. (See chart). There are a total of 1611 buildings in the 3 still active FACE Areas. Of these, 58% (935) have been SCC'd or in excess of 61% of the 95% objective before subtracting the "true" litigation cases. After reducing by the latter (144 litigation cases) to an objective of 1386 buildings, the status of completion for Areas 5-7 is 67.5%.

Areas 1-7. (See chart). In the 7 areas there are a total of 4598 buildings which were over 83% complete as of June 1974, or had met almost 88% of the 95% objective before the "true" litigation cases were deducted. After deducting the litigation cases (171) for both areas 1-4 and 5-7, the adjusted objective is 91% attained.

Based on the status charts at end of this section, which are prepared on the rationale above and the assumption that loan requirements will be met on a timely basis, the FACE objective can be met and will materially contribute to the objectives set forth in the previously mentioned Improvement Plan for Residence and the Comprehensive Plan.

Due to the remaining workload in the active three FACE areas and the limited physical capability of the City to administer and operate these programs within assigned manpower, budget and other limitations, it is projected that no RAP area properties can be processed under the RAP program (e.g., inspections, processing of loans, etc.) until necessary resources become available from FACE operations. Timewise, it is estimated that, after FACE and/or RAP loan funds are available for funding the residual FACE workload properties, resources cannot and will not be assigned to RAP areas (i.e., Upper Ashbury or Inner Richmond) probably not before summer CY 1975, and then only on a gradual progressive basis. The alternative, which is not considered practicable at this time, would require the obtaining of additional resources (trained personnel, funds and materials) by appropriations approved by the Board of Supervisors and Mayor which could be assigned directly to the two RAP areas and not be detrimental to the expeditious completion of the three remaining incomplete FACE areas.

As stated, at various stages of completion of the FACE areas, resources will be progressively transferred to the two new RAP areas and continuing efforts will be taken to increase capabilities commensurate with City policies, objectives and resources. All costs of salaries, materials and supplies for the inspectorial staff are provided by City funds, not Federal, although up to an additional \$420,000 in Sec 117 funds may be forthcoming as stated earlier. Therefore, due to the City's budgetary problems, staffing has been limited to that which maintains capability to operate the programs but not at a level equal to the FACE program at an earlier date nor at a level to handle FACE/RAP workload simultaneously.

One of the major reasons for not meeting the 95% completion target for areas 1-7 to date (June 30, 1974) has been the lack of Sec 312 loan funds. Since June 1969, there have been about 30 months, or 50% of the time, in which loan funds essentially were unavailable. For example, in FY 1972, there were a total of 8.5 months in which there were no loan funds. Since November 1972, other than 26 funded in six (6) months from December 1972 - May 1973, amounting to \$625,200, there have been practically no loan funds available. In June 1973, there were 24 loans approved, valued at \$347,000. As of June 30, 1973, there were 41 loans, valued at almost \$1.3 million, at HUD awaiting approval and funding, but latter had indicated these were not to be funded, were being returned without action, and no more loan requests were to be forwarded to HUD. In November 1973 HUD returned the loan applications indicating lack of funds precluded their approval.

During the FY 1973-74, other than 3 loans approved in August 1973, valued at slightly under \$47 thousand, no other loans have been processed/approved by HUD. However, on June 11, 1974, HUD advised that the City could commence submitting loan applications since \$2.18 million in Sec 312 loan funds had been allocated to the HUD San Francisco area (7 cities), including San Francisco, with priority given (per HUD public announcement) to low and moderate income families and owners of single-family units, owner-occupied -- balance to be on first-come, first-serve basis. In addition, per the City's request, the City was granted the use

of Early Commitment Procedure (ECP), which would expedite reprocessing of the applications. The applications had to be at HUD by June 26, and the funds reserved by HUD by June 30, 1974. Using limited ECP, the City forwarded, within the very limited time allowed, 75 loan applications, amounting to \$2,008 million. The applications submitted had bids up to 30 months old, and due to inflationary costs since the dates of the applications, each application "reservation" request was increased a percentage commensurate with age of bid(s).

On June 26, 1974 (the deadline date for submission of the loan applications), HUD announced additional restrictive criteria:

- 1) Mandatory that the total indebtedness of the property owner must not exceed 90% of the after-rehab appraised value.
- 2) The amount of the loan cannot exceed \$5,000/unit in buildings having 5 or more units.
- 3) The priorities were:
  - 1st - Sec 221d(3) applicants.
  - 2nd - Owner occupants of 1-4 family dwellings
  - 3rd - Other (Investor-owned) 1-4 family dwelling owners.
  - 4th - Owners of property with 5 or more units.

Of the 75 applications submitted, 38 were approved for reservation, amounting to \$540 thousand, but with a "conditional" stamp stating, essentially, subject to not exceeding the "90%" limitation. The remaining 37 (about \$1.47 million) were returned, without action, and to resubmit as regular loan applications since it was understood ECP approval did not extend beyond June 30, 1974.

Upon protest of the change in priorities and the additive criteria, especially on the deadline date of submissions (June 26th), HUD subsequently rescinded both the "90%" and "\$5,000" restrictions, but had not authorized the resubmission of the rejected 37 applications.

Although HUD has announced and/or implied at various times during FY 1973-74 that up to \$65 million in Sec 312 loan funds would be available and that San Francisco would be eligible under their announced priorities, the City was not the recipient of any loan funds during the entire fiscal year except for the previously mentioned 3 loans (\$47 thous) approved in August 1973. As mentioned earlier, HUD returned without action 39 loan applications, valued at approximately \$1.26 million, in November 1973 and there were an additional 170 loan applications, valued at approximately \$3.9 million in the pipeline. As of June 1974, there are in excess of 200 applications on hand/in process, with a value/cost of over \$5.0 million, including an estimated inflationary cost to compensate for "age" of bids (up to over 30 months old due to lack of loan funds). See tables and charts showing requirements and status of loan funds.

Of the total budgeted costs \$1.65 million for public improvements (street lights, street trees, street reconstruction, etc.), included in the \$6.5 million for administration and operating costs shown above, about \$1.81 million worth of construction, or over 100% of the programmed

(budgeted) work, was in place as of June 30, 1974. The City's local (budgeted) contribution is 78.5% (almost \$1.3 million) of the Public Improvements portion of the budget, with the Federal Government financing the balance (\$355,325). See table showing further breakout of status.

An evaluation of rehabilitation costs (through June 30, 1974) in the currently active three (3) FACE Areas reveals that average costs for rehabilitation have varied from about \$1000 per dwelling unit for those privately financed to slightly over \$6170 per unit for those financed with Federal funds. The average cost per dwelling unit was lowest in Bernal Heights for those privately financed and highest in Duboce Triangle for those Federally funded. In respect to individual building rehabilitation costs, as opposed to cost per dwelling unit, Duboce Triangle had the lowest costs for those privately financed, whereas Bernal Heights had the lowest expenditures in relation to number of buildings rehabilitated using Federal funds.

The rehabilitation costs of structures in the FACE Areas for "work in place" totals over \$11.8 million. The "work in place" consists of those structures in which the rehabilitation has been completed and meets code requirements. In addition, there have been improvements above code which, in regard to Areas 5-7, for example, have amounted to over \$846 thousand.

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COST OF REHABILITATION OF PROPERTIES (in \$ Thous)  
(Excluding Improvements Above Code)

To: June 30, 1974	FACE Areas	Total	Residential	Non-Residential	Mixed
	Total 1-4	\$5,142.2	\$4,923.8	\$21.4	\$197.0
	5-7	6,700.1	6,417.4	25.1	257.6
	Total 1-7	\$11,842.3	\$11,341.2	\$46.5	\$454.6

---

COST OF REHABILITATION OF AREAS 5-7 PROPERTIES  
BY CATEGORY (IN \$Thous)

To: June 30, 1974	FACE Areas	Category	Total	Resid.	Non- Resid.	Mixed
	5-7	Code Enf.	\$6,700.1	\$6,417.4	\$25.1	\$257.6
		Impr. above code	846.2	712.0	89.0	45.2
	Total	Code Enf. & Impr.	\$7,546.3	\$7,129.4	\$114.1	\$302.8

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Of the residential structures in areas 5-7 rehabilitated to code requirements through June 30, 1974, 58% of the buildings have been re-novated by private means, constituting only 18% of the total dollars



Above and Right: Kingston Street before and after construction of new stairway. Bernal Heights has many unpaved cross-streets which are not needed for vehicular access but provide pedestrian ways. Eugenia Street & Esmeralda Avenue also had stairs and walkways installed, often in conjunction with small plaza areas. Where the neighbors have been interested, the City has also provided plant materials for landscaping projects. Above Right and Far Right: Views of Noe and Sanchez Streets before and after reconstruction. The 19' sidewalks, often filled with parked cars, were narrowed to provide for diagonal parking, increasing the supply of spaces by 30%. "Miniplazas", 30' wide, were installed at many corners. Decorated with bands of red brick, trees & seat-height bollards to keep cars out, the plazas provide play space and greeting places.







expended (both private & Federal loan and grant funds) for renovation of all residential structures.

#### STATUS OF BUILDING IN ORIGINAL FOUR FACE AREAS (CLOSED)

(01) ARGUELLO PARK; (02) BUENA VISTA; (03) GLEN PARK; (04) GREAT HIGHWAY  
AS OF JUNE 30, 1974

Category	BUILDINGS (STRUCTURES)					Dwelling Units	
	Total	%	Resid.	Non-Resid.	Mixed	Total	%
(a) Total Buildings	2988	100.0	2885	32	71	5734	100.0
(b) Insp. Completed	2986	99.9	2883	32	71	5731	99.9
(c) Found Code Viol.	2596	86.9	2511	21	64	5155	89.9
(d) Found Standard	390	13.0	372	11	7	576	10.0
(e) Rehabilitated	2462	82.4	2384	18	60	4965	86.6
(f) Demolished	57	1.8	49	4	4	78	1.4
(g) Total SCC'd * (d,e,&f)	2909	97.4	2805	33	71	5619	99.3

\*SCC'd-Satisfactory Code Compliance (Found Standard, Rehabilitated & or Demolished)

#### STATUS OF BUILDINGS IN (CURRENTLY ACTIVE) THREE FACE AREAS (05) ALAMO SQUARE; (06) BERNAL HEIGHTS; (07) DUBOCE TRIANGLE AS OF JUNE 30, 1974

Category	BUILDINGS (STRUCTURES)					Dwelling Units	
	Total	%	Resid.	Non-Resid.	Mixed	Total	%
(a) Total Buildings	1611	100.0	1509	29	73	4598	100.0
(b) Insp. Completed	1611	100.0	1509	29	73	4598	100.0
(c) Found Code Viol.	1573	97.6	1476	25	72	4549	98.9
(d) Found Standard	38	2.4	33	4	1	49	1.1
(e) Rehabilitated	872	54.1	830	16	26	2361	51.3
(f) Demolished	25	1.6	21	2	2	44	1.0
(g) Total SCC'd (d,e,&f)	935	58.0	884	22	29	2454	53.4

#### FACE AREAS 1-7 REHABILITATION LOANS & GRANTS (In Thous. of Dollars) CUMULATIVE THROUGH FISCAL YEARS 1971, 1972, 1973 and 1974

	THROUGH June 30, 1971		THROUGH June 30, 1972		THROUGH June 30, 1973		THROUGH June 30, 1974	
	Number	\$Amount	Number	\$Amount	Number	\$Amount	Number	\$Amount
Service (Sec)								
Loan (312)	745	\$7,796.5	832	\$9,858.2	964	\$12,716.9	958*	\$12,688.7*
Grant (115)	265	576.0	307	708.6	329	785.0	345	833.4
Total	1010	\$8,372.5	1139	\$10,566.8	1293	\$13,501.9	1303	\$13,522.1

\*Although 3 loans (\$45,750) approved in Aug. 73, actual reduction from June 30, 1973 due to adjustments because of loans not consummated, reduced, etc.



LOANS & GRANTS BY CLOSED & ACTIVE FACE AREAS  
CUMULATIVE THRU JUNE 30, 1974  
(In Thous. of Dollars)

FACE Areas	Total Loans & Grants		Loans		Grants	
	Number	Amount	Number	Amount	Number	Amount
Closed: Areas 1-4	842	\$4,968,728	612	\$4,505,650	230	\$463,078
Active: Areas 5-7	461	8,553,362	346	8,183,000	115	370,362
Total . . . . .	1303	\$13,522,090	958	\$12,688,650	345	\$833,440

**PUBLIC IMPROVEMENTS**

Part of the City's contribution to the enhancement of the FACE Neighborhoods is in the form of various public improvements, such as street lighting, street trees and street paving, which it installs in the areas. Public utilities assist area beautification by undergrounding overhead wires on key streets in the areas. Work done by the City was completed in Areas 1-4 and totalled \$936,100 for that work including engineering and inspection costs (\$146,800) and street resurfacing; and, in Areas 5-7, work in place totals almost \$733,000 (excluding engineering costs) or 100% of the program.

PUBLIC IMPROVEMENTS IN AREAS 1-4  
(Thru June 30, 1974)

Public Improvement	Number	Lineal Feet*	Initial Estimated Cost (\$Thous)	Cost of Work in Place (\$Thous)	% Com- plete
Streets . . . . .	-	5280	\$408.0	\$316.1	100
Curbs and Gutters . . . . .	-	7920	28.0	22.8	100
Sidewalks . . . . .	-	7920	31.0	30.6	100
Traffic Lights . . . . .	13	-	57.0	17.2	100
Street Lights . . . . .	152	-	217.0	85.2	100
Fire & Police Communications	5	-	0	4.0	100
Street Trees . . . . .	965	-	111.0	73.7	100
Street Resurfacing . . . . .	-	547,318*	51.8	51.9	100
Other . . . . .	-	-	221.0	187.8	100
Total . . . . .	-	-	\$1,124.8	\$789.3	100

\*Square feet for street resurfacing

(Note that the "total" cost figures shown at bottom of above table do not include the 20% cost for engineering and inspection except street resurfacing costs do include overhead and indirect costs).

PUBLIC IMPROVEMENTS IN AREAS 5-7  
(Thru June 30, 1974)

Public Improvement	Number	Lineal Feet*	Initial Estimated Cost (\$Thous)	Cost of Work in Place (\$Thous)	% Complete
Streets . . . . .	-	4680	282.0	285.9	100
Curbs and Gutters . . . . .	-	8580	31.0	37.8	100
Sidewalks . . . . .	-	8580	41.0	63.6	100
Street Lights . . . . .	115	-	199.0	114.4	100
Fire & Police Communications	7	-	35.0	7.5	100
Street Trees . . . . .	476	-	153.0	74.2	100
Street Resurfacing . . . . .	-	64,509*	6.0	6.0	100
Other . . . . .	305	305	137.0	143.3	100
Total . . . . .	-	-	884.0	732.7	100

\*Square feet for street resurfacing

(Note that the cost figures shown above do not include the 20% cost for engineering and inspection except street resurfacing costs include overhead and indirect costs).

STREET TREES PLANTED BY FACE AREA  
ON FORCE ACCOUNT BASIS  
as of June 30, 1974

FACE Area	Total Trees	Trees Planted	To Be Planted	Approx. Cost (incl. mat. & labor)
(05) Alamo Square	89	89	None	-
(06) Bernal Heights	63	50	13	-
(07) Duboce Triangle	84	57	27	-
Total (05-07)	236	196	40	\$23,000*

\*\$19,592.80 expended thru June 30, 1974. The \$23,000 is the budgeted amount for this project. When planted, the property owners must maintain the trees which they had previously agreed to in writing.

The coordinator for the Force Account street tree planting project has been the Bureau of Street Cleaning and Tree Planting in which they procured the trees and the attendant materials (e.g., soil, stakes, etc.), furnished the equipment, contracted for the pavement breaking, supervised the labor and provided other related requirements.

The Department of City Planning was also involved in determining the type, location and quantities of trees to be planted.

Under this program, the cost of the purchase of trees and attendant planting costs were borne by Federal (FACE) funds. The property owner, on whose street side property the tree(s) was planted, has to

sign an agreement that, once planted, the property owner would maintain the tree(s).

#### RELOCATION OF FAMILIES AND INDIVIDUALS

Relocation services for persons displaced by FACE Program activities are provided by the Central Relocation Service (CRS) of the San Francisco Redevelopment Agency. Since the inception of the FACE program, families and individuals have been relocated in the seven areas due to either the extensiveness of the rehabilitation and/or rent increasing 10% or more.

#### Requests for Relocation (Sent to CRS) All FACE Areas (By number of cases)

FACE Area	Number of Requests	Reasons for Relocations (Number of Cases)			
		Rehabi- litation	Demo- lition	Rent Increase	Overcrowding
(01) Arguello Park	15	15	0	0	0
(02) Buena Vista Hgts.	8	8	0	0	0
(03) Glen Park	2	2	0	0	0
(04) Great Highway	10	7	3	0	0
Total (01-04)	35	32	3	0	0
(05) Alamo Square	113	98	9	6	0
(06) Bernal Heights	55	53	0	1	1
(07) Duboce Triangle	59	50	0	9	0
Total (05-07)	227	201	9	16	1
Total (01-07)	262	233	12	16	1

#### Relocations Thru June 30, 1974 (as reported by Central Relocation Services)

	Total Cases	Families	Individuals	Businesses
(1) Net estimated workload in original applications	547	187	357	3
(2) Total in workload to June 30, 74	200	121	76	3
(3) Total removed from workload thru June 30, 1974	188	113	72	3
(4) In workload, end of period (June 30, 1974)	12	8	4	0

ABATEMENT ACTIVITIES FISCAL YEAR	FY 1973	FY 1974
Cases on hand end of FY (June 30) . . . . .	2,786	3,318
Cases logged in . . . . .	1,031	619
Initial Inspections . . . . .	640	453
Reports mailed . . . . .	526	420
Cases sent to Director's Hearings . . . . .	549	736
Abatement Appeals Board		
Filed . . . . .	282	209
Decisions Rendered . . . . .	333	166
Cases referred to City Attorney . . . . .	414	185
Complaints Closed During FY . . . . .	403	415
Complaints unjustified and closed . . . . .	0	11
Buildings Restored . . . . .	323	334
Buildings Demolished . . . . .	80	70
Cases on Hand end of Fiscal Year (June 30) . . . .	3,318	3,522

The City Attorney, on a work order basis, has provided legal services to FACE equivalent to one full time Deputy City Attorney and a legal stenographer. Also, but not on a work order basis, legal services are provided for other Abatement cases (in addition to FACE). In cases upheld by the Director and the AAB, and in which the owner does not comply with their decision, they are referred to the City Attorney's office for legal action.

Abatement Cases in Office of  
City Attorney  
FY 1973-74

End of Month	Cases Filed FACE			Cases Terminated FACE			Remaining Workload FACE		
	Total	No.	%*	Total	No.	%*	Total	No.	%*
Jun 73	-	-	-	-	-	-	714**	161**	22%
Jul	17	6	35	11	1	9	-	-	-
Aug	9	1	11	0	0	0	-	-	-
Sep	4	1	25	17	4	24	-	-	-
Oct	17	1	6	16	3	19	-	-	-
Nov	20	3	15	27	5	19	-	-	-
Dec	9	1	11	25	6	24	-	-	-
Jan 74	16	2	13	19	5	26	-	-	-
Feb	49	4	8	12	2	17	-	-	-
Mar	17	3	18	17	3	18	-	-	-
Apr	10	2	20	11	2	18	-	-	-
May	1	0	0	15	3	20	-	-	-
Jun 74	16	1	6	5	2	40	734	150	20%

Total

FY 73-74 185 25 14% 175 36 21%

\*\*% of total cases.

\*\*Remaining workload figures reflect a change from report last year (due to minor arithmetic error made on last year's report).

## Community Liaison Activities

In April 1972, the Alamo Square Citizen's Advisory Committee (CAC) interviewed and selected a candidate for the position of Community Liaison Officer (CLO). In addition, 3 Community Liaison Workers were also selected to assist in relocation matters.

These positions were created in keeping with the HUD guidelines for citizen participation in the FACE program. At this time the liaison staff has been reduced to the CLO and only one Community worker, now designated as a Specialist (HRC). Both are paid from Department of Labor (EEA) funds; however, these positions are planned to be budgeted in program costs if and when EEA funding is discontinued.

The CLO is assigned to the Alamo Square FACE office and her activities are confined to that area. The incumbent is under the direction of the Chief, Property Conservation Division, as well as the Alamo Square Citizens' Advisory Committee, but in day to day operations reports to the Senior Inspector of Alamo Square FACE office. This position is unique within the program in that the CLO is a spokesman for the Alamo Square community via the CAC.

The Specialist (HRC) provides similar support for the other FACE areas.

Principal responsibilities of the CLO and the Specialist (HRC) are to develop and direct community-oriented services for FACE neighborhoods, as well as to assist FACE inspectors in potentially sensitive tenant/landlord situations. In addition, the liaison activities are concerned with the RAP Program and have been concerned to date, for example, in preparing for CAC elections in the new RAP areas.

The CAC and CLO/Spec (HRC) meet at regular intervals to review FACE progress and to discuss program areas in need of attention. Projected activities call for a specification review process, in order to provide interpretation and understanding of specifications for FACE (& later RAP) property owners in need of and desiring such assistance.

A-Actual Amount C-Cumulative Amount		FACE FEDERAL GRANT FUNDS (In Thous of Dollars)										
Amend- ment/ Budget	Contract/Amendment/Ltr		Area Cov'd	Time Frame (To)	Grants (\$) Approved in Budget				Sec 312 Loans			
	Date of Approval	Purpose			Total	Code	Enf	Reloc	Rehab	Date	No.	\$'s
Basic Contract & Budget #1	11/30/66	Authorized FACE in Areas 01-04 & Sec 117/114 funds	01-04	9/69	A/C2,646.7	Sec 117		In Budget	Sec 114			
Amend 1 & Budget 2	7/7/67	Authorized/ provided Sec 115 funds	01-04	9/69	A(+)337.5 C2,984.2	0	2,560.7	0	337.5 337.5	-	-	-
Amend 2 & Budget 3	6/27/69	Incr. funds & Added areas (05) (07)	01-07	9/69	A(+)817.5 C3,801.6	(+)424.5 2,985.1		+148.7 234.6	+244.4 581.9	6/69	369	\$3,179.7
Amend 3 & Budget 4 & 4A**	12/11/69	Changed Bernal Hts. Boundary No funds In- volved		01-04: 6/70 05-07: 3/72 05-07: 3/72	A1,000.0 C4,801.6	+972.5 3,957.7		-86.7 147.9	+14.2 696.1	6/70	#296 C665	\$1,843.8 \$5,023.5
Amend 4 & Budget 5	7/30/70	Amended boundary of Alamo Square (Inc. Freder- erick Douglas Plaza)	05-07	01-04: 6/70 05-07: 3/73	A1,800.0 C6,601.6	1,600.0 5,557.7		0 147.9	+200.0 896.1	6/71	A83 C748	\$2,767.6 \$7,791.1
Amend 5 & Budget 6	4/30/71	Changed fi- nancing amts & changed boundaries of all areas ex- cept Bernal	05-07	3/73	A+824.6 C7,426.2	+169.0 5,726.7		+655.6 803.5	0 896.1		-	-
(Continued next page)												

\*Only representative dates shown. Actual (A) amount is increased since previous date.

\*\*Budget 4A only adjusted funds between line items within approved budget.

A-Actual Amount (from previous period) C-Cumulative Amount (from beginning to date)		FACE FEDERAL GRANT FUNDS (In Thous of Dollars)										
Amend- ment/ Budget	Contract/Amendment/Ltr		Area Covered	Time Frame (To)	Grants (\$) Approved in Budget				Sec 312 Loans			
	Date of Approval	Purpose			Total	Code	Enf	Reloc	Rehab	Date	No.	\$'s
Amend 6 & Budgets 7 & 8*	3/2/72	Adjustments in funding & relocation rights/ assurances	05-07	3/73	A 0 C7,426.2	0	5,726.7	0	0	803.5	896.1	-
			05-07	6/73	A 0 C7,426.2	0	5,726.7	0	0	803.5	896.1	6/72
Amend 7 & Budget 8	9/6/72	Providing a Grant equal to 2/3's of the actual cost of the program or \$6,530 whichever is less; indicated the relocations' assurances as being satisfactory; placed a ceiling of \$803.5 for relocation payments with HUD approval necessary to exceed that limit.	05-07	6/73	(Same as Budget #8)							
Ltr Amend & Budget 8	6/29/73	Extending the project to June 30, 1974	05-07	6/74	(Same as Budget #8)					6/73	#132 C964	\$2,858.0 \$12,716.9
HUD Msg (FAX)	11/27/73	Approved the use of \$243,463 of the 10% holdback	05-07	6/74	(Same as Budget #8)						-	-



A-Actual Amount (from previous period)  
C-Cumulative Amount (from beginning  
to date)

FACE FEDERAL GRANT FUNDS  
(In Thous of Dollars)

(Continued)

Amend- ment/ Budget	Contract/Amendment/Ltr		Area Covered	Time Frame (TO)	Grants (\$) Approved in Budget				Sec 312 Loans		
	Date of Approval	Purpose			Total	Code Enf	Reloc	Rehab	Date	No.	\$'s
HUD Ltr	6/18/74	The HUD letter of June 18, 1974 advised that: (1) An additional \$420,000 for Sec 117/Sec 115 Grant funds had been reserved for FACE (S.F.) and the City was to submit an amendatory application and budget revision; (2) Our FACE contract was extended from June 30, 1974 to Jan 1, 1975. By letter of June 24, 1974, a proposed amendatory/revised budget (Budget #9) was forwarded requesting the \$420,000 be applied against Sec 117 needs (estimated no additional Sec 115 (rehab grant) funds needed), upon their return of the proposed amendatory/budget, approval would be requested of Board of Supervisors/Mayor by resolution. Total of \$7,846.2 (thous) and \$646.7 (thous) for Sec 117 in parenthesis ( ) because the additional \$420,000 has not been approved (as of June 30, 1974) by HUD.	05-07	1/1/75	(7,846.2)	(6,46.7)	803.5	896.1	6/74	A-6*** C958	138,2*** 12,688.7

\*Budget #8 did not increase or decrease budgeted funds - only involved adjustments in Sec 117 (Code Enforcement) line items.

\*\*Only FACE Areas 5-7 are active; areas 1-4 (under same basic contract with areas 5-7) were closed out in 1970. However, HUD had not allowed expenditure/obligation of 10% (called 'holdback') of the Sec 117 (Project Cost) funds (10% of \$5,726,666 = \$572,666 holdback). As result of City's request, HUD released \$243,463 of \$572,666, based on completion of areas 1-4 and the HUD Area Director's recommendation that the balance (of the 10%) withheld (\$329,203) would be sufficient to meet any possible differences at time of final closeout of areas 5-7 & final audit. The \$243,463 was used for FACE Sec 117 administrative/operating costs for period Nov. 27, 1973 to about April 1, 1974.

\*\*\*Reductions during FY 1973-74 due to cancellations and other adjustments. There were only 3 loans for \$45,750 approved during period (Aug. 1973).

CURRENT SEC 312 LOAN REQUIREMENTS (In Pipeline)  
And Status for FACE Areas 5-7 (Figure in \$ Thous)

July 1974

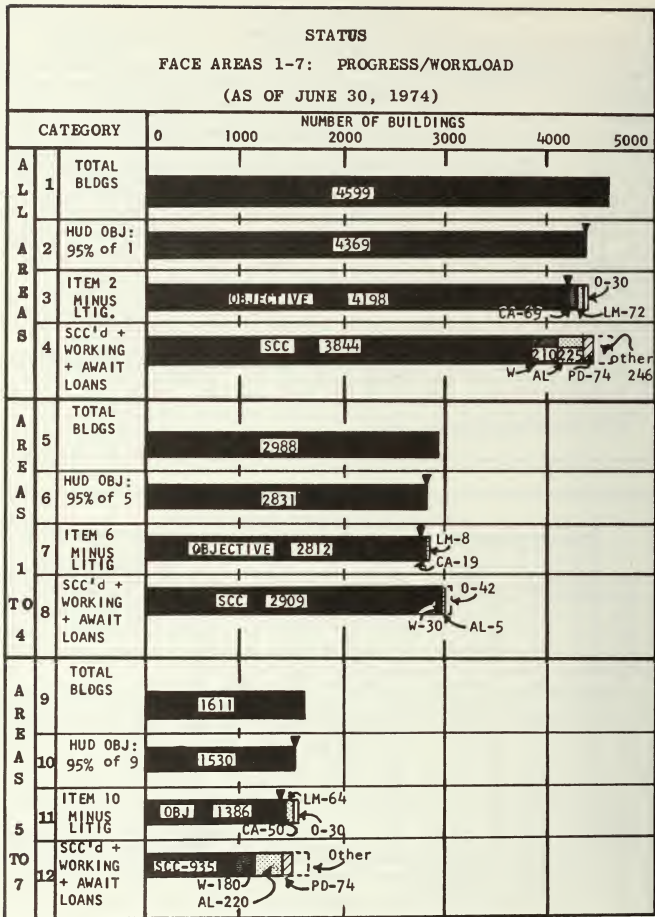
Area	C A T E G O R Y																	
	Submitted to HUD-ECP June 74						Ready prior to						Balance of		Total			
	App'd/Res'd.			Ret'd by HUD			Sept 1, 1974			Oct 1, 1974			Requirements					
	L	DU	\$	L	DU	\$	L	DU	\$	L	DU	\$	L	DU	\$	L	DU	\$
	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T
(05) Alamo Square (06) Bernal Heights (07) Duboce Tri	7	30	\$118.6	3	9	\$122.4	12	52	\$ 341.8	9	61	\$243.0	38	197	\$1,156.8	69	349	\$1,982.6
(08) Total 5-7	5	6	\$ 69.7	6	13	\$208.8	19	36	\$ 479.8	1	1	\$ 17.4	3	5	\$ 59.7	34	61	\$ 835.4
(09) Total Incl Glen Pk 10% Contingency	26	71	\$352.2	5	13	\$209.5	8	58	\$ 489.1	11	31	\$283.8	53	185	\$ 939.5	103	358	\$2,274.1
(10) GRAND TOTAL	38	107	\$540.5	14	35	\$540.7*	39	146	\$1,310.7	21	93	\$544.2	94	387	\$2,156.0	206	768	\$5,092.1
(11) Total Incl Glen Pk 10% Contingency	0	0	0	0	0	0	2	2	\$ 28.4	0	0	0	1	1	\$ 17.4	3	3	\$ 45.8
(12) GRAND TOTAL	38	107	\$540.2	14	35	\$540.7	41	148	\$1,339.1	21	93	\$544.2	95	388	\$2,173.4	209	771	\$5,137.9
(13) GRAND TOTAL	-	-	\$ 54.0	-	-	\$ 55.0	-	-	\$ 134.0	-	-	\$ 55.0	-	-	\$ 217.0	-	-	\$ 515.0
(14) GRAND TOTAL	38	107	\$594.5	14	35	\$595.7	41	148	\$1,473.1	21	93	\$599.2	95	388	\$2,390.4	209	771	\$5,652.9

\*Of \$900,000, SFRA received \$351,450 and FACE \$540,650 (\$7,900 held for contingencies).

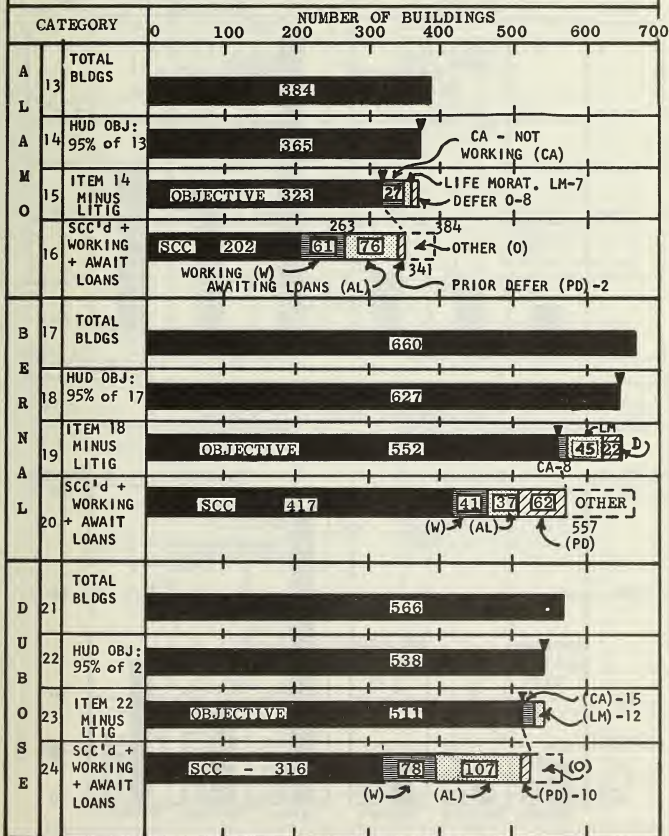
\*\*Factor to cover any additional costs.

\*\*\*10% factor not included in either funds reserved by HUD for 38 shown in cols B-D nor for the 14 in E-G.

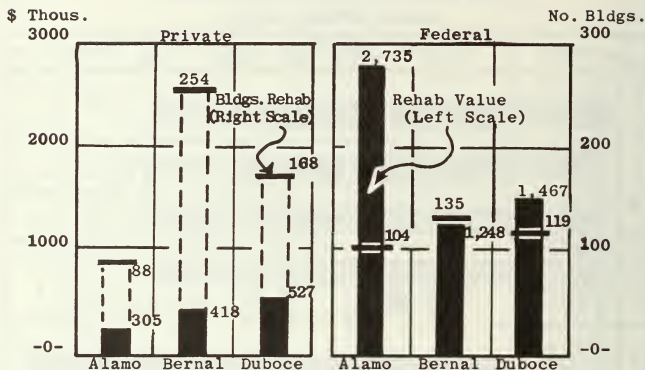
L-No. of Loans DU-Dwelling Units  
\$-Value of Loans (incl refin if applic)



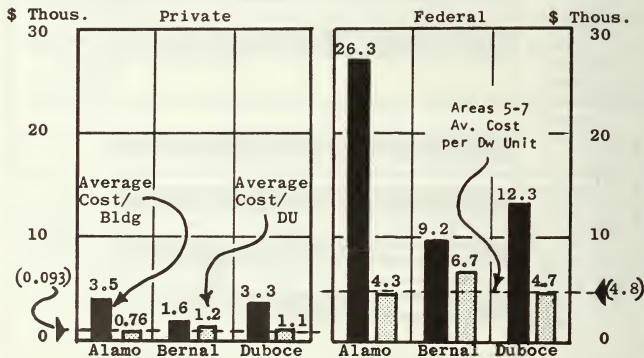
STATUS  
FACE AREAS 5-7: PROGRESS/WORKLOAD  
(AS OF JUNE 30, 1974)



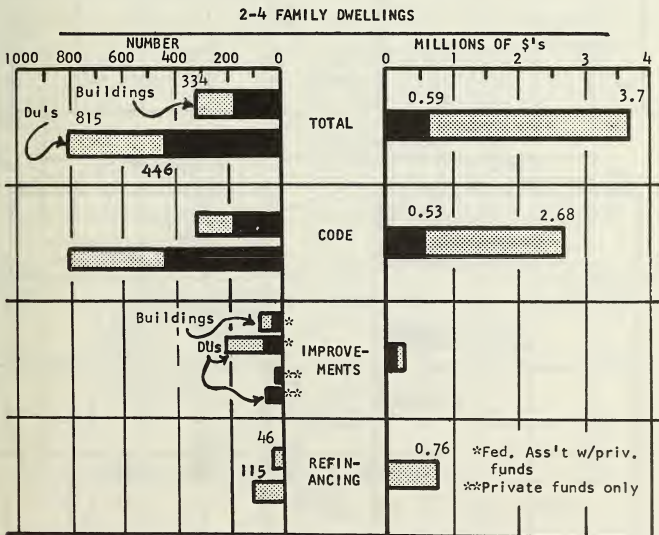
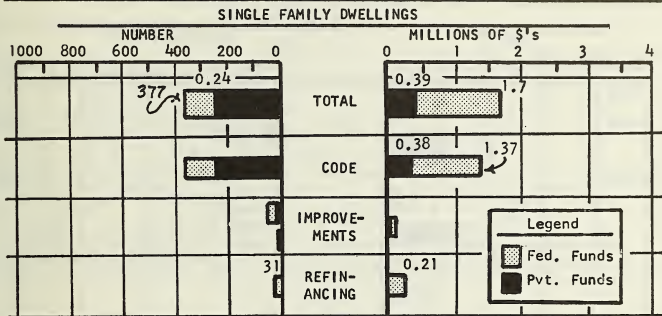
REHABILITATIONS - CODE COMPLIANCE  
Privately - Federally Funded  
Thru June 30, 1974



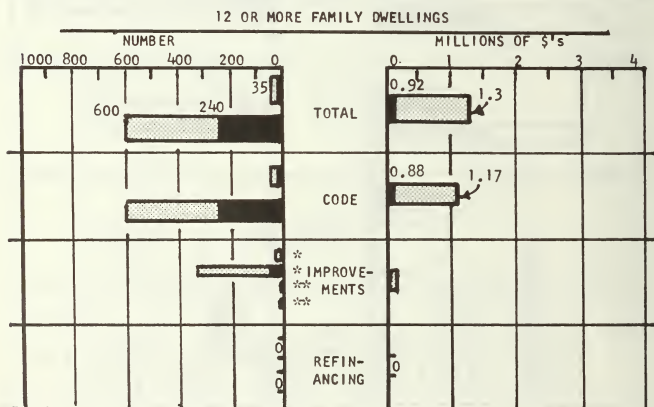
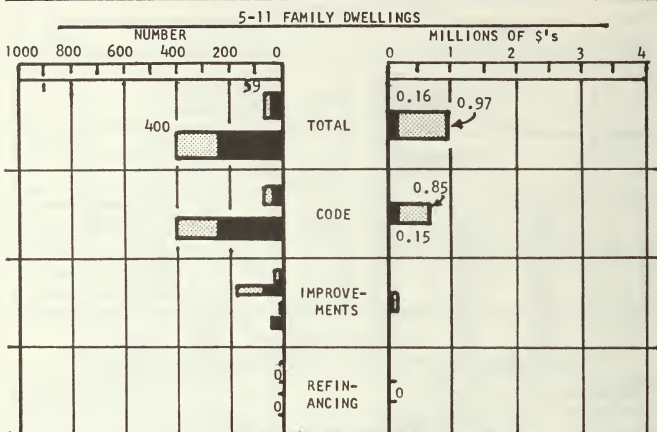
AVERAGE COST/BUILDING AND DWELLING UNIT  
Private and Federally Funded  
Thru June 30, 1974



AREAS 5-7  
CODE REHAB - IMPROVEMENTS - REFINANCING  
BY SIZE OF DWELLING



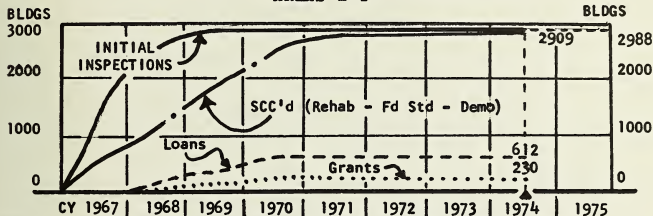
AREAS 5-7  
CODE REHAB - IMPROVEMENTS - REFINANCING  
BY SIZE OF DWELLING



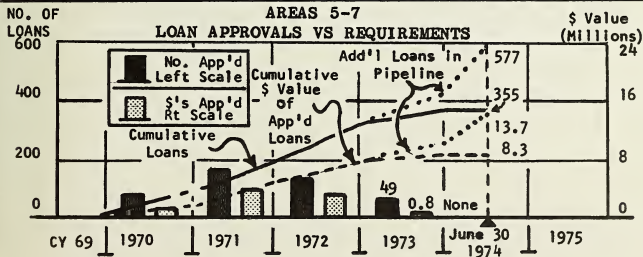
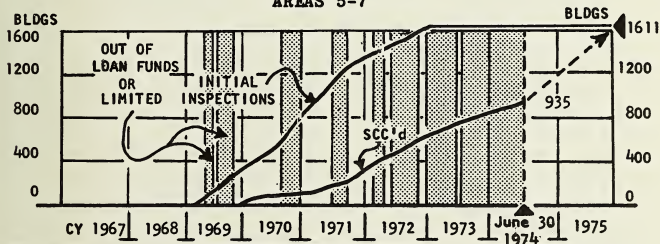


**FACE PROGRESS**  
**INSPECTIONS - SCC'S - LOANS/GRANTS**  
**THRU JUNE 30, 1974**

**AREAS 1-4**



**AREAS 5-7**



ORGANIZATION RELATIONSHIPS  
MAINTENANCE - REPAIR - OPERATION  
1973 - 74

DIRECTOR OF PUBLIC WORKS  
S. MYRON TATARIAN

ASST. DIRECTOR FOR MAINTENANCE & OPERATION  
KEENO FRASCHINA

BUREAU OF WATER POLLUTION CONTROL  
J. CRAFTS, SUPERINTENDENT

FUNCTIONS

1. Maintain and Repair Sewage System
2. Operate and Maintain 17 Sewage Pump Stations
3. Operate and Maintain 3 Sewage Treatment Plants and 1 Storm Overflow Facility
4. Conduct Water Pollution Surveys
5. Provide Advisory Service to other City Departments on Sewage Treatment

PERSONNEL ALLOWANCE

(a) Budgeted	232
(b) Non-Budgeted	31
(c) Assigned from other Departments	4
(d) Contract Employees on Hired Trucks	4
TOTAL	271

Budgeted by Bureau \$7,800,696

BUREAU OF STREET REPAIR  
C.F. McFADDEN, SUPERINTENDENT

FUNCTIONS

1. Maintain and Repair Public Streets
2. Operate and Maintain 3 Lift Bridges
3. Operate and Maintain Asphalt Plant
4. Operate Granite Curb Yard
5. Operate and Maintain Broadway Tunnel
6. Operate and Maintain Underpasses and Overcrossings
7. Maintain and Repair Certain Street Structures
8. Perform Work for other Bureaus and Departments by Work Order

PERSONNEL ALLOWANCE

(a) Budgeted	171
(b) Assigned from other Bureaus	1
TOTAL	172

Budgeted by Bureau \$3,735,680

SUMMARY: Total Personnel Allowance 1,201  
Total Budgeted, plus Reimbursements \$27,178,173

BUREAU OF BUILDING REPAIR  
J.S. RUTHERFORD, SUPERINTENDENT

FUNCTIONS

1. Maintain and Repair Certain Public Buildings
2. Provide Maintenance and Repair Services and Personnel on an Interdepartmental Basis to other City Agencies
3. Provide Operating and Custodial Personnel in Certain Public Buildings
4. Conduct Engineering-Architectural Surveys and Prepare Reports on Certain Public Buildings
5. Paint Street Traffic Striping and Markings on Work Order Basis
6. Repair Certain Street Structures and Sidewalks Fronting on City Property
7. Maintain Street-Name Signs on Work Order Basis

PERSONNEL ALLOWANCE

(a) Budgeted	402
<b>TOTAL</b>	<b>402</b>

Budgeted by Bureau	\$5,725,474
Funds from other Bureaus	\$3,724,473
<b>TOTAL</b>	<b>\$9,429,947</b>

BUREAU OF STREET CLEANING AND PLANTING  
B.M. CROTTY, SUPERINTENDENT

FUNCTIONS

1. Clean Public Streets including Pedestrian and Vehicular Overhead and Underground Structures and 215 Stairways
2. Control Weeds on Unimproved Streets
3. Operate 19th Avenue Garage, Sunset Boulevard Office and Storeroom and Nursery at Southeast Water Pollution Control Plant
4. Maintain 175 Acres of Landscaping and 20,000 Street Trees
5. Promote and Coordinate Litter Control Programs and Tree Planting Programs Independently and in Cooperation with Various Groups and Committees
6. Provide Technical Horticultural Assistance to Engineers, Architects and Builders
7. Operate Department of Public Works Radio Station KGB 327
8. Maintain 19 Neighborhood Off-Street Parking Lots and 2 Garages: Cleaning, Landscaping and Repair
9. Plan, Budget, Coordinate and Administer:
  - A. Summer Youth Program; over 700 People Employed at Cost of \$505,675
  - B. Organic Gardening Program

PERSONNEL ALLOWANCE

(a) Budgeted	355
(b) Assigned from other Bureaus	1
<b>TOTAL</b>	<b>356</b>

Budgeted by Bureau	\$6,211,850
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## MAINTENANCE AND OPERATION BUREAUS

Keeno Fraschina

Assistant Director of Public Works, Maintenance and Operations

### GENERAL

All maintenance and operational functions of the Department are centered in the four bureaus of Building Repair, Water Pollution Control, Street Cleaning and Tree Planting, and Street Repair, with a total of 1,201 employees. Subsequent sections of this report indicate functional and organizational relationships of these bureaus, both internally as well as departmentally.

Total personnel of the several bureaus decreased by 17 positions from last fiscal year. There was a loss of 19 budgeted positions in the Bureau of Street Cleaning and Planting, offset by a gain of two positions in the Bureau of Building Repair for a net loss of 17 positions. The apparent loss of 7 positions in the Bureau of Water Pollution Control is to correct for duplication of positions budgeted in other Bureaus but assigned to Water Pollution Control.

As in the last few years actual employments were considerably less than budgeted positions because of the continuing City policy of not replacing personnel as vacancies occur and the slowness of Civil Service procedures in filling authorized positions. The number of unfilled positions fluctuated widely during the year. As of June 30, when the number was at a minimum, there were 63 unfilled positions, or 5.2% of the authorized work force. Most of the vacancies during the year were in Street Cleaning, resulting in greatly reduced capability of that Bureau to clean our streets and in many complaints of poor service from the public.

With decrease in the available work force and with budgeted maintenance funds continually falling behind skyrocketing costs, there has been an inevitable and serious erosion in maintenance levels and services to the public which can be maintained. While it is not possible to place a monetary value on the ever widening maintenance gap, there is no doubt that future replacement and reconstruction costs for under-maintained facilities will be much more than if they had been properly kept up. The problem was made worse by spot gasoline shortages during the energy crisis in December, January and February, and by the six day City employee strike in March.

The Bureau of Street Cleaning and Planting this year again organized a Summer Youth Program to employ disadvantaged youth as it has in the past two years. Work was necessarily restricted to street related activities since funding was

from Gas Tax/Road Fund monies. The program again proved itself mutually advantageous to both the youth engaged and to the City. To the youth it offered an opportunity for constructive work and a feeling of accomplishment for a job well done. To the City, it provided an opportunity to undertake and to complete many minor but necessary tasks that otherwise could not have been done with the manpower available.

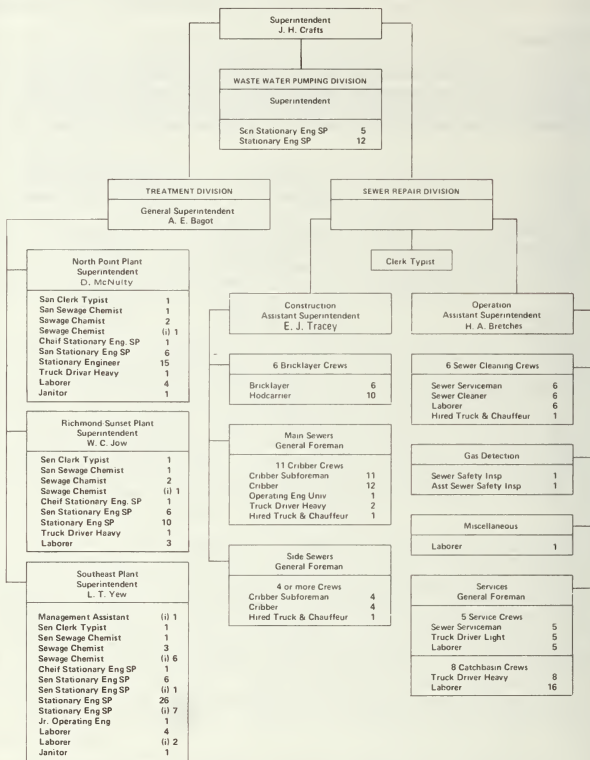
# EXPENDITURES

Expenditures by Maintenance and Operation Bureaus amounted to \$21,791,538 from budgeted appropriations and \$3,714,473 from funds received by work order, or a total of \$25,506,011. A breakdown of expenditures and per capita costs follows:

	Total Expenditures	Per Capita Cost Based on 1970 Census of 715,674
Street Repair	\$3,472,641	\$ 4.85
Water Pollution Control	7,483,961	10.46
Building Repair	9,130,715	12.76
St. Cleaning & Planting	5,418,694	7.57
Total	\$25,506,011	\$35.64

**ORGANIZATION CHART**  
**BUREAU OF WATER POLLUTION CONTROL**  
**DEPARTMENT OF PUBLIC WORKS**

June 30, 1974



(i) interdepartmental



## BUREAU OF WATER POLLUTION CONTROL

J. H. Crafts, Superintendent

The Bureau of Water Pollution Control maintains 900 miles of sewers and operates 17 pumping stations, one storm water overflow treatment plant, and three treatment plants. To perform these tasks the Bureau is divided into three divisions: Sewer Repair, Wastewater Pumping, and Treatment.

During 1973-74 the Bureau had 232 budgeted and 27 non-budgeted employees, supplemented by four hired truck drivers with their vehicles and 11 maintenance people assigned from other City departments and bureaus.

The Bureau spent \$7,676,275 in budgeted funds as shown in Chart I. Since the Industrial Waste Control and Sewer Service Charge programs are operations functions they are budgeted in this bureau. However, administration of these programs is assigned to the Bureau of Engineering of the Department and \$308,775 was expended for these programs leaving a net budget expenditure of \$7,367,500 for activities of this bureau. In addition, the Sewer Repair Division spent \$197,011 on side sewers paid for by property owners and \$13,775 on other work on work orders from other departments.

The San Francisco Municipal employees strike in March 1974 had a variable effect on bureau operations. Only one or two persons belonged to one of the striking unions. However, all persons except a few key supervisory personnel honored the picket lines of the striking unions.

Since the majority of the sewer repair equipment was in the field operations were almost normal on Friday March 8, 1974, the first day of the strike. The Sewer Repair division was unable to operate for five days commencing Monday, March 11, 1974. Arrangements were made with a private contractor to do emergency work necessary to protect public safety or property but no emergencies occurred.

The Wastewater Pumping Stations remained in full operation during the strike.

During a similar strike in March 1970 the Wastewater Treatment plants were not picketed except by wildcat pickets for a few hours and operation was virtually unaffected. However, on March 8, 1974 the treatment plants were picketed. By the end of the day shift all personnel had left with the exception of the three plant superintendents and the plants were shut down. Since the plants require 42 men per day for normal operation it was not possible to plan for and recruit enough supervisory personnel until Monday, March 11, 1974.

On Tuesday morning the Richmond-Sunset plant was placed in operation by a crew consisting of one Senior Civil Engineer from the Bureau of Engineering, the Richmond-Sunset and Southeast plant Superintendents, two Sewer Repair General Foremen and one Street Repair General Foreman.

Commencing at about noon that day a crew consisting of the Bureau Superintendent, the Treatment Division General Supt., one Sewer Repair Assistant Supt., and one Sewer Repair General Foreman with four other persons placed the North Point plant in operation.

Shortly after midnite that night an agreement was reached whereby the pickets were withdrawn from the plants and by the day shift Wednesday March 13, 1974 all three plants were in operation and fully manned. Approximately 239 million gal of untreated sewage bypassed the North Point plant, 88 million gal bypassed the Richmond-Sunset plant and 95 million gal bypassed the Southeast plant.

Total rainfall for the year was 24.33 in. compared with average annual rainfall of 20.57 in. This was significantly less than the rainfall of 34.36 in. recorded in fiscal year 1972-73. This was reflected in a decrease in total wastewater pumped and total wastewater treated. In addition, there were no extraordinary storm caused sewer failures during the year.

#### SEWER REPAIR DIVISION

The Sewer Repair Division cleans, repairs and makes minor additions to main sewers and related structures; installs and repairs side sewers paid for by property owners; tests sewers for oxygen deficiency and potentially explosive and toxic gasses; and controls mosquitos in catchbasins.

The Division has 109 budgeted employees on main sewer work, eight non-budgeted employees (12 are authorized) for side sewer installation and repair paid for by property owners, and four hired trucks with drivers to assist in both activities. There was a significant drop in new side sewer installations compared with fiscal year 1972-73. This is attributed to a City ordinance passed in 1972-73 which permitted private contractors to install and repair side sewers for the first time. Work units or groups are as shown in the organization chart. Details of unit functions, methods of operation, and equipment used are the same as described in the 1965-66 Annual Report. While many of these groups frequently assist each other, the material trucks, digging unit, and compressor unit are almost entirely subsidiary as their principal function is to assist other units.

The continuing City policy of not filling positions vacated by retirement, death, or promotion seriously affected Division

productivity. This was especially noticeable in sewer cleaning and catchbasin cleaning operations where levels of activity have had to be reduced considerably below previous years when this policy was not in effect.

The Division received 4,684 telephone complaints during the year. The activities of the work units are summarized in Chart II. The work done by the service units is shown below:

SIDE SEWER	No. Calls	Percent	
Relieved clogged side sewer	1,379	11.4	
Unable to relieve side sewer	426	3.5	
Found side sewer broken	114	1.0	
Found trouble inside property	51	0.4	
Determine if side sewer exists	1	0.0	
Examine for crew on job	16	1,987	0.1 16.4
MAIN SEWER			
Investigation to find cause of problem	1,289	10.6	
Relieved clogged main sewer	67	0.6	
Unable to relieve main sewer	60	0.5	
Found main sewer broken	188	1.6	
Examine for crew on job	45	0.4	
Wet down backfill	3	1,652	0.0 13.7
CATCHBASINS AND MANHOLES			
Remove obstruction	808	6.7	
Replace cover	200	1.6	
Silence noisy cover	186	1.5	
Catchbasins & manholes found broken	55	0.5	
Unable to relieve catchbasin	74	1,323	0.6 10.9
DEPRESSIONS			
Investigation to find cause	822	6.8	
Not caused by sewers	113	0.9	
Caused by sewers	668	1,603	5.5 13.2
MISCELLANEOUS			
Service lights & barricades	4,540	37.5	
Investigate seepage & leaks	61	0.5	
Clean pump station	179	1.5	
Deliver material to job	512	4.2	
Not classified	185	1.5	
Remove deposits from sidewalk	4	0.0	
Mosquitos	67	5,548	0.6 45.8
Total	12,113	100.0	

A storm during the night of October 22, 1973 exceeded five year storm design intensity rate causing widespread complaints. The 208 complaints received from 8:00 a.m. to 4:30 p.m. on October 23 were 117 for flooded catchbasin, 62 for flooded side

sewer, 24 for manhole cover off and 5 for a hole in the street. This is in contrast to the average daily number of calls which is 12.

An unusual major sewer failure occurred in 4th Street between Brannan and Bryant Streets on June 10, 1974. An old egg shape three foot by five foot brick sewer was inspected and it was found that so much mortar was gone that the sewer could not be safely repaired from inside. It was necessary to excavate and rebuild 74 feet of the sewer above the spring line.

#### WASTEWATER PUMPING DIVISION

The Wastewater Pumping Division operates and services one storm water overflow treatment plant and 17 wastewater pumping stations and has 18 budgeted employees. In addition, a half time electrician is provided by the Bureau of Building Repair on work order. The Division expenditures and costs are shown in Chart III.

The Baker Street Dissolved Air Flotation Facility, which is designed to treat 24 million gallons per day of sanitary waste and storm water overflow from the surrounding drainage district, was operated on an experimental basis for another year while tests continued to evaluate its usefulness and improve its operation.

A description of design flows, control systems and distribution of personnel is to be found in the 1972-73 Annual Report.

Major problems encountered during the year were:

#### HYDE ST. PUMP STATION

As a result of complaints of dry weather bypassing from the Hyde St. station the tributary system was thoroughly cleaned and inspected in January 1974. It was found that the tide-gate on the Hyde St. storm overflow outfall was not seating properly allowing tidal inflow and outflow in the system. It was also determined that the tide gate was not repairable. Since major improvements were scheduled which will eliminate the pumping station a wier wall was constructed in an overflow line manhole as an interim measure which eliminated the observed inflow and outflow.

#### MARINA PUMP STATION

On Thursday July 12, 1973 the 30 in. diameter force main broke which caused the station to be shut down at 12:50 p.m. Sewer Repair Division crews commenced excavating at the site of the break promptly. However, the only operable department backhoe broke down and a private contractor was hired under emergency procedure to work with City forces. The services of

the contractor were also necessary to repair the steel and concrete cylinder pipe. The joint forces worked continuously until 2:10 p.m. Saturday July 14, 1973 when the station was placed in operation. The repair required extensive excavation and was particularly difficult due to unstable soil condition, ground water and the fact that the break was located between two railroad tracks adjacent to the branching track switch. The volume of bypass was 10.6 million gallons and the period was 49 hours and 20 minutes.

#### MARIPOSA STREET PUMP STATION

During the year breaks occurred in the station force main causing bypass as follows:

Date	Bypass Time Hr	Bypass Vol.mil gal
November 13, 1973	23	1.5
January 22, 1974	28	1.8
February 12, 1974	22	1.4
February 22 and 24, 1974	58	3.8

In each case Sewer Repair Division crews worked continuously to minimize the bypass time. As of June 30, 1974 a contract had been scheduled by the Bureau of Engineering to install an inner polyethylene pipe through the entire 2,700 feet of existing 10 in. diameter cast iron pipe.

#### TREATMENT DIVISION

The Treatment Division operates and maintains the North Point, Richmond-Sunset, and Southeast treatment plants, monitors water quality in the bay and ocean, and advises other City departments, commissions and agencies about sewage treatment facilities under their jurisdictions.

The Division has 105 budgeted and 19 interdepartmental employees working at the three plants. They are supplemented by two electricians and two painters budgeted by the Bureau of Building Repair, two gardeners provided by work order from the Bureau of Street Cleaning and Tree Planting, four machinists provided by work order from the Purchasing Department, and one half-time electrician provided by work order from the Bureau of Building Repair.

Treatment activity is shown in Chart IV. Cost of operation was \$5.23 per capita for the year based on a tributary population of 950,000. This number is an estimate derived from the City Planning Department's projections of peak day and night population and agrees with similar figures developed by the Bureau of Engineering.

Both the North Point and Southeast plants were operated as advanced primary plants using Ferric Chloride and Anionic Polymer to treat the wastewaters. Plant scale tests using



Alum, Ferric Chloride, Caustic Soda and Cationic Polymers for wastewater treatment were conducted throughout the year at the Richmond-Sunset plant.

The following major maintenance work was done:

#### NORTH POINT PLANT

Bar Racks: Replaced 3/4" screens in #3 and #4 bar racks.  
Chlorination: Replaced #1 and #3 chlorine water pumps.  
Grit System: Replaced screw conveyor in #2 grit channel.  
Lift Station: Overhauled B and D main lift pumps and motors. Renewed ventilation duct work in east and west lift pump sumps.  
Sedimentation: Replaced air diffuser in inlet channel to sedimentation tanks. Renewed seal water lines to all sludge transfer pumps.  
Water System: Renewed #2 water lines in Pretreatment Building and east tunnel.

#### RICHMOND-SUNSET PLANT

Bar Racks: Rebuilt three bar screens and repaired spalling concrete in influent channel.  
Boilers: Overhauled three boilers and controls.  
Chlorination: Modified electrical system to chlorine cylinder hoist.  
Digestion: Repaired roof of 100' digester. Overhauled two Lammert gas compressors.  
Electrical: Replaced main power circuit and renewed starters in all control panels. Installed outside lights between digester control and Administration Building.  
Grit System: Overhauled six grit pumps.  
Lift Station: Overhauled #1 sewage lift pump.  
Sedimentation: Overhauled two raw sludge pumps.  
Vacuum Filtration: Rebuilt sludge mixing tank.  
Ventilation: Replaced exhaust fan and ducts in sludge control station and over the elutriation tanks.

#### SOUTHEAST PLANT

Bar Racks: Rebuilt two bar racks.  
Boilers: Overhauled #2 boiler, two feed pumps and two condensate pumps.  
Chlorination: Overhauled #3 chlorine evaporator.  
Digestion: Overhauled two sludge withdrawal pumps, all waste gas burner back pressure and control valves. Repaired and reset relief valves on #8 and #9 digesters.  
Elutriation System: Renewed shoes, sprockets, and portions of chain for collector mechanisms in eight tanks.  
Grit System: Rebuilt three grit pumps and installed new rubber sand hose. Completely renewed collection mechanism in south grit tank. Replaced flights and shoes and installed new water service to shaft bearings in north grit tank.



Lift Pumps: Overhauled #2 main lift pump and motor.  
Sludge Control: Overhauled #1 and #2 Ferric Chloride feed pumps and replaced 50% of ferric piping system.  
Sludge Thickening: Rebuilt #1 and #2 sludge pumps.  
Vacuum Filtration: Repaired various sludge pumps, polymer pumps, filter drive motors and air compressors. Renewed 160' of galvanized drip pan under filter cake conveyor belt. Made miscellaneous repairs on vacuum filters and filter cake conveyors. Rebuilt filter cake storage hopper.

New installations include the following items:

#### NORTH POINT PLANT

Installed experimental flocculation equipment in sedimentation tank #5.  
Installed a new chlorine diffuser and sulfur dioxide effluent detoxification system.  
Set up new gas chromatography and nutrient analysis facilities in laboratory.

#### RICHMOND-SUNSET PLANT

Enlarged laboratory to provide a bacteriological service area.  
Constructed a new ladies lounge in Administration Bldg.  
Installed new chemical feed equipment for sewage treatment.

#### SOUTHEAST PLANT

Installed experimental flocculation equipment in sedimentation tank #4.  
Installed a new sedimentation tank polymer feed system and automatic controls.  
Remodeled #3 and #4 sedimentation tanks to allow raw sludge, thickened within the tank, to be pumped directly to digestion.  
Installed a 6 in. hot sludge recirculation line between digesters and raw sludge discharge lines from sedimentation tanks.  
Converted #6 and #10 digesters from sludge to gas recirculation type.

Special laboratory projects completed or in progress were as follows:

#### COMPLETED:

Laboratory and plant scale evaluations of various chemicals used as raw sewage coagulants at the Richmond-Sunset plant.

#### CONTINUING:

Investigation of flocculation systems and chemicals for effectiveness in wastewater treatment.

Investigation of coagulant systems procedures and materials for vacuum filtration.  
Pesticide and nutrient analysis of plant effluents.  
Identification of industrial wastes.

Chart I                      Bureau of Water Pollution Control  
                                     Budget Expenditures  
                                     1973-74

	Wastewater Treatment	Wastewater Pumping	Sewer Repair
<b>PERSONAL SERVICES</b>			
Permanent Salaries*	\$293,164	\$9,157	\$172,098
Overtime*	846		2,996
Holidays*	489		2,284
Temporary Salaries*	2,622		
Wages (Per Diem)	1,686,027	318,920	1,458,988
Retirement	240,143	42,300	225,543
Social Security	67,198	11,373	68,800
Health Service System	1,138	126	1,011
Interdepartmental	347,388		
Sub-Total	2,639,015	381,876	1,931,720
<b>CONTRACTUAL SERVICES</b>			
Power & Gas **	151,009	41,305	
Plant Equipment	351,646	26,727	
Field Equipment	5,521	1,220	65,394
Sludge Disposal	347,599		
Industrial Waste Control	180,632		
Quality Monitoring	51,891		
Landscape Maintenance	29,721		
Miscellaneous Services	14,269	3,920	27,879
Hired Trucks			63,251
Service Charge Program	128,143		
Sub-Total	1,260,431	73,172	156,524
<b>MATERIALS AND SUPPLIES</b>			
Replacement Parts	234,486	2,622	977
Field	2,247		57,808
Plant	57,709	1,516	
Fuels and Lubricants	6,796	1,893	17,096
Treatment Chemicals	743,967	5,293	
Sub-Total	1,045,205	11,324	75,881
<b>EQUIPMENT</b>	21,337		79,790
Total	\$4,965,988	\$466,372	\$2,243,915

\* Monthly Employees

\*\* In Public Utilities Commission budget

Chart II

Sewer Repair Division  
Work and Cost Distribution  
1973-74

Work Unit	Work Done	% of Time	Total Cost (a)	Unit Cost (a)
1 Sewer cleaning	265,669 Lineal ft cleaned Other work	100.0 0.0	\$191,811 0	\$191,811
2 Eductor operations	10,102 Catchbasins cleaned Other work	67.9 32.1	185,114 87,402	18.32
3 Services	4,684 Complaints serviced Other work	50.0 50.0	127,232 127,172	27.16
4 Main pipe sewers	4,677 Lineal ft repaired at 383 locations	100.0	366,176	78.29
5 Brickwork	9,674 Lineal ft brick sewer repaired 0 Catchbasins constructed 2 Manholes constructed 612 Catchbasins repaired 251 Manholes repaired	72.1 1.1 17.0 9.8	133,454 2,017 31,456 18,217	13.80 1008.50 51.40 72.58
6 Gas detection	2,440 Manholes tested Other work	11.2 88.8	2,904 22,913	1.19
7 Miscellaneous			211,105	
Total budgeted work			1,506,973	
8 Work orders (b)			13,775	
9 Side sewers (c)	118 Installations 90 Repairs 11 Connections		115,395 77,742 3,874	977.92 863.80 352.18
Grand Total			51,717,759	

(a) Costs do not include supervision, overhead or other indirect charges.

(b) Repairs for other bureaus or departments.

(c) Paid for by property owners.

Chart III

Waste Water Pumping Stations  
Expenditures and Cost Data  
1973-74

Location	Drainage Area In Acres	Million Gallons Pumped	Salaries	Maintenance	Power	Materials & Supplies	Equipment	Total	Cost Per Mil Gal Pumped
General			\$ 9,157	\$1,220	\$1,391*			\$11,768	\$ 1.35
Drum Street	332	1,363	60,322	4,960	4,999	\$ 942		71,223	52.25
Fourth Street North	138	1,872	85,279	7,012	7,213	1,294		100,798	53.85
Fourth Street South	25	72	3,548	292	465	50		4,355	60.49
Fulton Street	82	68	3,548	292	1,000	47		4,887	71.87
Hunters Point	90	132	3,548	292	760	91		4,711	35.69
Hyde Street	14	80	3,548	292	627	55		4,522	56.52
Lake Merced	930	495	17,801	1,464	4,131	342		23,728	47.94
Marina	1,125	2,386	99,550	8,185	6,209	1,649		115,593	48.45
Mariposa Street	117	211	8,994	739	1,650	146		11,529	54.64
Palace of Fine Arts	2	6	357	29	58	4		448	74.67
Pinelake	3	4	712	59	344	3		1,118	279.50
Sea Cliff #1	4	7	712	59	86	5		862	123.14
Sea Cliff #2	84	109	3,609	297	2,384	75		6,365	58.39
Tennessee Street	2	59	1,773	146	191	41		2,151	36.46
Twentieth Street	27	35	1,772	146	371	24		2,313	66.09
Vicente Street	52	118	3,548	292	1,018	82		4,940	41.86
Yosemite Avenue	1,277	1,709	56,849	4,673	5,214	1,161		67,917	39.74
Totals	4,304	8,726	\$364,627	\$30,449	\$38,131	\$6,031		\$439,238	\$50.34
Baker Street Storm Overflow Facility	187		\$ 17,249	\$ 1,418	\$ 3,174	\$5,293		\$ 27,134	
Total Expenditures			\$381,876	\$31,867	\$41,305	\$11,324		\$466,372	

\* Maintenance Shop (51386) and 24th Avenue and Lake Street Gate (55) power bills included in General Costs.

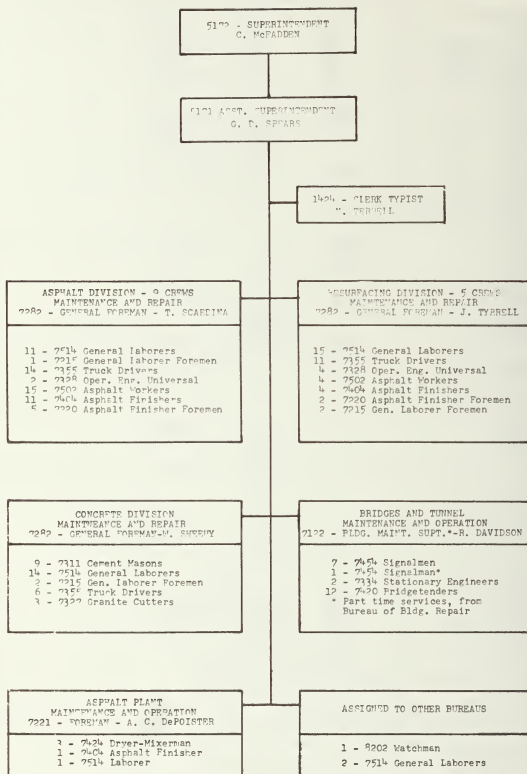
Chart IV

TREATMENT PLANT OPERATION  
1973-74

	North Point	Richmond-Sunset	Southeast
<b>1. Wastewater Treatment</b>			
Flow, million gallons			
Total(a)	23,450.0	8,217.7	7,732.5
Avg day	64.8	22.8	21.5
Avg day, dry weather(b)	60.3	21.2	20.1
Max day, wet weather	106.8	44.7	39.1
Max day, dry weather	70.7	24.4	26.2
Max rate, wet weather	162	77	49
Max rate, dry weather	103	48	41
Screenings, cu ft			
Total	35,598	13,225	34,135(c)
Max day	280	116	508
Per million gallons	1.5	1.6	4.4
Grit, cu ft			
Total	44,411	55,299	
Max day	594	616	
Per million gallons	1.9	6.7	
Grit and screening hauling, trips	620	320	301
Chlorination, lb(d)			
Pre	737,980		202,100
Post	2,158,510	1,021,450	2,435,740
Total	2,896,490	1,021,450	2,637,840
mg per liter	41.8	41.9	40.9
Treatment Chemicals			
Ferric Chloride, lb	2,995,762(e)	374,783(f)	2,418,091(e)
Alum		2,527,724(f)	
Caustic Soda, lb		246,787(f)	
Cationic Polymer, lb		149,240(f)	
Anionic Polymer, lb	38,051(e)	12,240(f)	15,543(e)
Sludge Solids, M lb (dry)			
From Sedimentation	29,140	6,091	32,131(g)
<b>2. Sludge Processing</b>			
Sludge Solids, M lb (dry)			
To digesters		6,091	63,083(h)
Filter cake		1,128	31,573(i)
Digester, Gas Produced, M cu ft			
Total		51,389	256,513
Avg day		141	703
Vacuum Filtration Chemicals			
Ferric Chloride, lb		103,704	
Ferric Chloride, % filter cake		9.2	
Solid Polymer, lb			85,575
Solid Polymer, % filter cake			0.27
Filter cake hauling to Parks, trips		275	
<b>3. Power and Gas Purchased</b>			
Power, total kwh	6,537,600	2,531,200	7,128,664
Power, avg kwh/no	544,800	210,933	594,057
Natural gas, total therms	84,362	17,927	7,105
Natural gas, avg therms/no	7,030	1,486	592

- (a) For 360.4 days North Point; 360.8 days Richmond-Sunset; 360.2 days Southeast.  
All plants shut down between March 8 and March 13 due to City employee strike.
- (b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.
- (c) Combined screenings and grit; discharged into a common bin.
- (d) Prechlorination for odor control as needed at North Point and continuous at Southeast. Post chlorination continuous at all plants.
- (e) Ferric Chloride and Anionic Polymer used for raw sewage treatment at North Point and Southeast plants.
- (f) Used for experimental plant scale chemical flocculation studies at various times throughout the year.
- (g) Includes recirculating load from sludge processing overflows.
- (h) Includes North Point raw sludge.
- (i) On wet basis 69,591 tons hauled to sanitary fill.

ORGANIZATION CHART  
BUREAU OF STREET REPAIR  
CITY and COUNTY of SAN FRANCISCO  
JUNE 30, 1974



171 TOTAL PERMANENT EMPLOYMENTS



## BUREAU OF STREET REPAIR

C. F. McFadden, Superintendent

### FUNCTIONS

The bureau's primary functions include the following; routine maintenance and repair of the City's streets and appurtenant structures, the maintenance of a city dump and granite curb yard; the maintenance and operation of three lift bridges, an asphalt plant, the Broadway Tunnel, the Army Street Circle, the Geary-Fillmore Underpass and several pumping stations.

Work ordered by the Director of Public Works includes traffic channelization, minor street alterations, minor construction and emergency work for the protection of the City and/or the public.

Work performed for other departments or bureaus includes the repair of pavements in Municipal Railway track areas, bus and street car yards, the repairing of trenches opened by the Bureau of Water Pollution Control, the repair of certain state highways within the City and the yards of other City institutions. The bureau also performs other services of a varied nature.

The City's charter provides that repair or reconstruction on any one job shall not exceed a cost of \$5,000. It also prohibits work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

Activities are further limited by state law governing the expenditure of monies from which the bureau is financed. (Collier - Burns Highway Act of 1947, as amended, and the Collier - Unruh Local Transportation Development Act of 1963.)

Maintained road mileage is as follows:

County Roads including Select System	843.60 miles
State Highways (by maintenance agreements)	10.32 miles
Total	853.92 miles

Inasmuch as San Francisco is a combined city and county, its streets and road system are one and the same.

## ORGANIZATION AND PERSONNEL

The organization of the Bureau remained about the same as previous years. During the year two civil service lists were established, one for class number 7311, Cement Mason and one for class number 7514 General Laborer.

An organization chart, as of June 30, 1974, accompanies this report.

### SUPERVISION

The Bureau's supervisory force remained the same as in previous years and consists of the following: A superintendent, assistant superintendent, three general foremen, asphalt plant foreman and the part time services of a building maintenance superintendent. The foreman of the asphalt plant usually reports directly to the superintendent, along with the building maintenance superintendent who is in charge of bridges, tunnels and underpasses. Each general foreman directly supervises a section of the Bureau's street repair force which is composed of an asphalt repair division, a concrete repair division and a resurfacing and crack sealing division. The assistant superintendent is in charge of the bureau's safety program and personnel development. He also investigates complaints and assists the superintendent in various administrative duties.

Improvement has been noted in the bureau's safety record. Lost time injuries during 1973-74 totaled 8, as opposed to 15 in 1972-73 and 13 during 1971-72.

### EQUIPMENT

Five dual wheel gasoline powered vibratory rollers were procured during the year. They have replaced the old wood and coal fired rollers which did not meet the standards set by the Bay Air Pollution Control District. The new rollers are performing well and have met with approval from our paving crew workers.

One trailer mounted air compressor which will comply with the City's Noise Abatement and Control Ordinance has been ordered as a replacement.

# MAJOR WORK PERFORMED

	UNIT	QUANTITY	TOTAL COST	UNIT COST
Asphalt Resurfacing- Hand Asphalt Paving	Sq.Ft.	79,929	\$ 17,610	\$ .22
(103.8 sq.ft. per ton)	Tons	770		22.87
Asphalt Resurfacing- Machine Asphalt Paving	Sq.Ft.	2,138,864	242,858	.11
(132.32 sq.ft. per ton)	Tons	16,164		15.02
Asphalt Resurfacing- Box Asphalt Paving	Sq.Ft.	375,736	69,757	.19
(125.58 sq.ft. per ton)	Tons	2,992		23.31
Asphalt Patching	Sq.Ft.	824,520	413,918	.50
(178.9 sq.ft. per ton)	Tons	4,608		
Asphalt Paving (Cut-Outs)				
Compressor Work	Sq.Ft.	96,398	36,459	.378
Asphalt Paving	Sq.Ft.	241,348	73,662	.305
(82.12 sq.ft. per ton)	Tons	2,939		
Cleanup			68,282	
Curb Reset and Replaced Compressor Work	Lin.Ft.	24,376	80,814	3.315
Granite Reset	Lin.Ft.	11,309	33,510	2.96
Granite Replaced	Lin.Ft.	2,992	10,087	3.37
Concrete Reset	Lin.Ft.	874	1,917	2.19
Pavement-Asphalt	Sq.Ft.	20,831	28,042	1.346
Pavement-Concrete	Sq.Ft.	2,738	5,661	2.067
Sidewalk	Sq.Ft.	12,676	22,014	1.736
Cleanup			103,973	

MAJOR WORK PERFORMED (continued)

	UNIT	QUANTITY	TOTAL COST	UNIT COST
Concrete Curb Patching			\$ 19,480	\$
Curb Yard				
Redress Granite	Lin.Ft.	3,007	24,132	8.025
Sort. Move etc.			43,190	
Total			67,322	
Crack Sealing				
Sealing	Lin.Ft.	905,750	143,271	.158
Cleanup			57,198	
Total			200,469	.221
Concrete Pavement	Sq.Ft.	4,864	6,847	1.407
Sidewalk Reconstructed	Sq.Ft.	39,334	66,090	1.68
Heater Planing	Lin.Ft.	261,785	71,592	.27
Slide & Debris Cleanup			149,612	
State Highways			831	
Work for Other Bureaus & Depts.			120,864	
Concrete Saw Work	Lin.Ft.	10,608	14,484	1.365
Patching Street Structures- Steps, Walls etc.			19,719	

# MUNICIPAL ASPHALT PLANT

Asphaltic mixtures produced at the Municipal Asphalt Plant during 1973-74 were as follows:

## COMPOSITION - %

Mix Designation	Tons	Asphalt	#6	5/16"	5/8"	1 1/4"
Surface	1,044	8 1/2	91 1/2			
School	3,614	7	60	33		
Topeka	24,517	6	45	25	24	
Spreader	1,551	5 1/2	40	25	17 1/2	12
Binder	30	3 1/2	21	28	22 1/2	25
Cold	291	*	35 1/2	27 1/2	30	
Total	31,047					

\*1% Asphalt and 6% Pacific specification 300 fuel oil.

Aggregates were screened into "hot bins" from a combination of Antioch (fine graded) sand, coarse graded sand and three sizes of gravel. Production costs for the 31,047 tons produced during the year were as follows:

Direct Labor	\$ 80,341	or	\$2.59 per ton
Indirect Labor	3,453	or	.11 per ton
Overhead	30,211	or	.97 per ton
Materials	174,449	or	5.62 per ton
Gas, Electricity Etc.	11,371	or	.37 per ton
Total	\$299,825	or	\$9.66 per ton

A reduction in our 1973-74 budget request for road materials together with sharp increases in material prices through out the year restricted the asphalt plant output. Since December 1973, the price of liquid asphalt alone has increased 126 per cent.

A major breakdown of our heater planer machine curtailed the bureau's resurfacing program for three months. The lack of personnel to man our work crews remains a severe problem.

The Pacific Coast user agencies have adopted the Aged Residue Graded Paving Asphalt Specifications effective January 1, 1974. The specifications are also included in the new AASHO, M-226 specifications. Hereafter, the designation for grading asphalt will be AR-8000 instead of 60-70 penetration paving grade

The asphalt plant continued to function satisfactorily and there were no major breakdowns during the year. Normal maintenance and repair was performed during periods of low production and on Saturday.

During June 1974, the aggregate storage bins were cleaned, primed and painted. The work was performed by the Bureau of Building Repair for a cost of \$1409, as a contractual service. During December, 1973, two new conveyor belts were installed by the operating crew.

#### ASPHALT PLANT MODIFICATION

A contract has been awarded to Mitchell Plumbing Company in the amount of \$105,350, to modify the exhaust gas cleaning system of the Municipal Asphalt Plant. The work to be done under this contract consists of designing and constructing a new, completely weather - resistant exhaust scrubbing system to comply with all applicable air pollution control regulation and City specifications. The contractor will furnish and install a new exhaust fan and motor, venturi type scrubber including separator, interconnecting duct work, sludge settling tank, water pumps, interconnecting piping, and miscellaneous other equipment including foundation and support work. The contractor will also furnish and install water supply piping and electrical starters and controls for the new equipment.



## HANDICAP RAMPS

In compliance with the California State Health and Safety Code, this bureau has initiated a program of providing ramps for the physically handicapped. Each time our street repair crews construct or reconstruct curb or sidewalk at a City street intersection a handicap ramp will be installed. A standard plan provided by the Bureau of Engineering has been adopted.

## BRIDGES, TUNNELS AND UNDERPASSES

During the year, the following major repair and maintenance work was performed under City contract to the Islais Creek Bridge.

The leaf locking system was reconstructed.

The metal road bed decking was studded in order to reduce skidding.

The sub structure and super structure metal surfaces were cleaned and painted.

The north side fender required emergency strapping due to failure of retaining chains.

The Fourth Street Bridge was shutdown several days in order to repair the automatic controls.

Bridge openings during the past year and the previous five years were as follows:

YEAR	THIRD STREET	FOURTH STREET	ISLAIS CREEK
1973-74	1,014	792	883
1972-73	944	642	700
1971-72	776	558	862
1970-71	1,185	861	396
1969-70	1,296	975	244

Statistics regarding the Broadway Tunnel ventilation, lighting and traffic are as follows:

# VENTILATION - FAN OPERATING TIME

YR. ENDING JUNE 30	WESTBOUND TRAFFIC				EASTBOUND TRAFFIC			
	SLOW		FAST		SLOW		FAST	
	HOURS	%	HOURS	%	HOURS	%	HOURS	%
1974	296.9	3.39	2.0	.02	58.8	.67	45.4	.52
1973	227.0	2.59	6.4	.07	96.9	1.10	44.3	.50
1972	381.7	4.35	9.9	.11	197.2	2.25	44.4	.50
1971	474.5	5.42	34.1	.39	735.5	8.39	60.1	.68
1970	474.0	5.41	12.2	.14	266.9	3.05	15.2	.17

Cleaning of the tiled surface in the tunnel was done by the Bureau of Street Cleaning as a contractual service.

Increased vandalism has caused continual replacement of emergency telephones in the Broadway Tunnel.

# LIGHTING - LAMPS REPLACED

	OCCASIONS	72T8's	T2T12's	TOTAL
Lamps in service		1,004	332	1,336
Replaced during the year	1	308	72	380
Previously replaced	61	10,317	1,000	11,317
Totals (since Dec. 1952)	62	10,625	1,072	11,697

# TRAFFIC COUNTS

		EASTBOUND	WESTBOUND
Thursday	July 5, 1973	14,891	13,733
Tuesday	September 7, 1971	15,329	13,410
Wednesday	March 12, 1969	14,241	12,291
Thursday	February 9, 1967	13,841	11,841
Tuesday	March 3, 1964	11,589	10,723
Tuesday	December 15, 1959	12,216	10,359
Thursday	July 10, 1958	11,144	9,478
Wednesday	February 11, 1953	8,668	8,770

The tunnel was put into service December 1952.

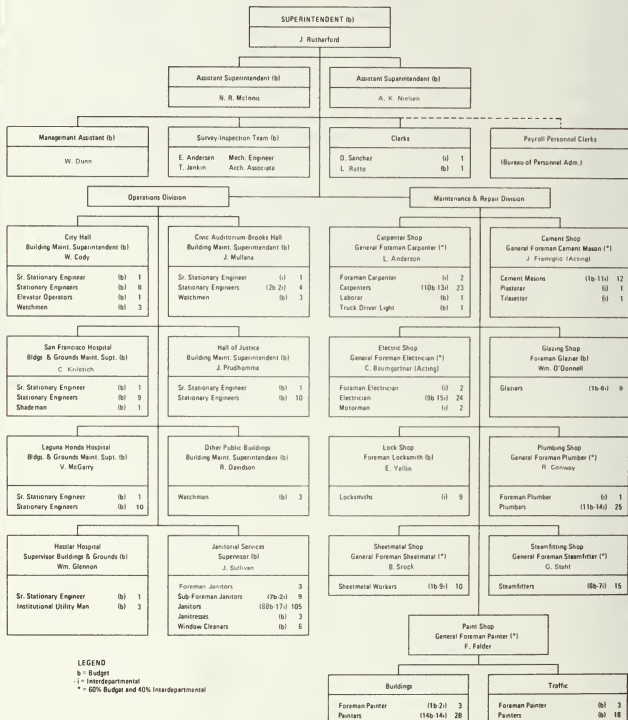
The pumping facilities at the Geary Expressway Underpass at Fillmore Street continued to operate satisfactorily during the year.

Pump operating hours during the year were as follows:

PUMP NO. 1		PUMP NO. 2	
HOURS	%	HOURS	%
375	4.28	432	4.93

# ORGANIZATIONAL CHART BUREAU OF BUILDING REPAIR

June 30, 1974



## BUREAU OF BUILDING REPAIR

J. Rutherford, Superintendent

With a work force of 402 employees consisting of nearly 50 different classes and an annual expenditure of \$9,130,714.00, this bureau is the largest and most diversified of the maintenance and operation units.

### FUNCTION

The bureau's primary function is to maintain and repair 329 public buildings, as well as provide operational and/or janitorial services for 112 of these buildings. In addition, maintenance and repairs are performed for other departments by means of a budget transfer or interdepartmental work order procedure. A significant portion of this work was performed for the following departments.

1. School Department with over 140 buildings.
2. Recreation and Park Department with over 300 buildings and structures.
3. War Memorial, de Young Museum, Legion of Honor, Public Utilities, etc.
4. Bureau of Engineering:
  - a) Street traffic painting and maintenance of street signs.
  - b) Maintenance and repair of street structures, sidewalks and traffic control devices.

### ORGANIZATION

As indicated by the organizational chart, the work force is evenly divided between operational and maintenance functions.

The Operation Division consists of 180 budgeted positions which include janitors, window washers, stationary engineers and watchmen who are assigned to various buildings and institutions.

The Repair Division consists of 201 building trade mechanics representing 12 different crafts. 90 of these are permanent budgeted positions. The remaining 111 positions are classified as interdepartmental and are filled on an "as needed" basis depending upon the work load and availability of funds.

The Administrative Division consists of a Superintendent and a staff of 7 which performs the required administrative functions of planning, budgeting, development of detailed work programs for each of the 9 major shops, pre-audit cost control on approximately 496 separate budget accounts, basic time reporting and personnel management. The Engineering and Architectural Team makes frequent inspections of the physical plant in connection with the bureau's preventive maintenance program and is responsible for all contract work. During the year, 60 contracts totaling \$125,451 were awarded on a competitive basis, as shown in Figure 4.

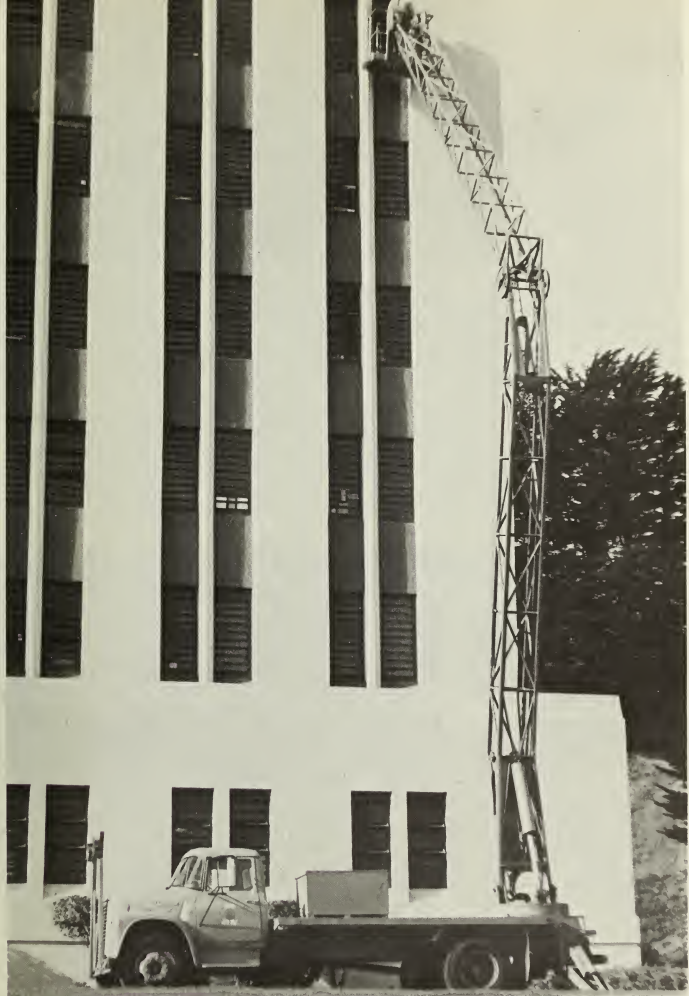
#### CHANGES

The total budget increased about 11% over the prior year principally due to higher costs for wages, fringe benefits, salaries, contractual services and materials and supplies. Total employments increased by two to 402. During the year, there were a number of retirements including Herold Schulz, General Foreman Cement Mason and Bert Smith, General Foreman Steamfitter. Andrew Nielsen was permanently appointed as Assistant Superintendent replacing Vincent McGarry who ably held down the position on a temporary basis and at the same time, continued to manage his former position as Building and Grounds Maintenance Superintendent of Laguna Honda Hospital. Carl Kriletich was finally permanently appointed as Building and Grounds Maintenance Superintendent at the new S. F. Medical Center after serving in a temporary capacity for several years.



Above: Replacement skylight fabricated by Sheet Metal Shop.





Above: Hi-Ranger is used to repair security sash at Jail #4.

## PROGRESS

Good progress was made by the Civil Service Commission in holding examinations and filling many long standing vacancies. Budget requests for increases in maintenance and repair funds for both San Francisco General Hospital and Laguna Honda Hospital were partially granted and should help to offset the reduction in services caused by inflation over the past 10 years. A new floor scrubbing machine and several replacement commercial vacuum cleaners were obtained during the year, and this equipment should enable the janitorial crew to improve the condition of the floors in City Hall.

The gasoline shortage and energy crisis caused great concern in the bureau, and drastic conservation measures were put into effect. At the maintenance yard, a savings of 37 percent was achieved in natural gas consumption alone, without causing any reduction in services.

A good start was made in reorganizing the janitorial operation. Several private concerns were contacted regarding the submission of proposals for consulting services and system analysis and installation. Bids ran up to \$103,000. Fortunately, another firm, Commercial Building Maintenance Co., agreed to provide a very small scale study and analysis for no cost as a

Far Right: Cement  
Masons complete new  
sidewalk in front of  
the Opera House.  
Right: Synchronous,  
impulse and carrier  
type clocks are re-  
paired and tested at  
the Electric Shop.



public service. Complete, detailed cleaning inventories have been completed and staffing levels established in conformance with private industry standards. Surprisingly, the recommended employment level was within one half-a-man of the existing number of Civil Service employment allotted.

The bureau received a unit citation for exceeding its goal in the United Crusade drive, collecting \$4,629.75 for this worthy need.

#### INTERDEPARTMENTAL WORK

The volume of interdepartmental work as shown in Figure 1 was down 3.2% from the previous year. The School Department continues to be the largest single account with expenditures of \$1,592,958 annually. During the year 10,222 work requisitions were completed which averaged 41 per work day. Analysis of costs show that 42% of all miscellaneous school jobs cost \$25.00 or less and 82% cost \$100.00 or less. Vandalism continues to be a major problem with the schools, as well as with Recreation-Park Department. The I. D. overhead averaged 55.4%, the same as for the previous year. The overhead consists of such items as retirement, social security, workman's compensation, sick leave, vacation, etc., over which the bureau has no control.



Right: All locksmith jobs can be accomplished at the work site using the Lockshop's completely equipped walk-in van.



#### PROBLEMS

As each year's Annual Report indicates, the number of new problems arising always seems to exceed the number of accomplishments registered during the year. For the record, the bureau's major problems are:

The catastrophic effects of inflation in reducing the level of maintenance and repair service that the bureau can provide at the current fixed level of funding.

The limited capital improvement program caused by limitation of funds.

Continuance of the policy of "freezing" replacement employments caused by retirement, promotion or death. In the janitorial unit, on some occasions, only about 60 percent of the authorized work force was actually on the job.

Large wage increases for the crafts classifications and very small increases for miscellaneous workers and supervisors have caused serious inequities in which some supervisors are now being paid less than the men they supervise. This has resulted in very severe morale problems among supervisors and among non-craft employees.

PUBLIC BUILDINGS UNDER THE JURISDICTION OF THE DEPARTMENT  
OF PUBLIC WORKS FOR MAINTENANCE AND REPAIR

DEPARTMENT	NO. OF BLDGS.	TOTAL SQ. FT.	ANNUAL EXP. (A)
Fire Department	61	623,000	\$ 161,241
Juvenile Court			
Hidden Valley Ranch	4	42,712	7,042
Log Cabin Ranch	16	32,000	14,873
Youth Guidance Center	17	202,330	66,392
Police Department (Stations)	10 (C)	101,293	33,041
Hall of Justice	1 (C)	580,500	209,144
Public Health			
Emergency Hospitals	5	33,352	14,713
*Hassler Hospital	18 (C)	130,000	9,561
Health Center Bldgs. and Health Centers	7 (C) 4 (R)	179,550 5,900	46,708
Laguna Honda Hospital	25 (C)	650,000	376,991
S. F. General Hospital	28 (C)	753,000	461,164
V. D. Center	1 (R)	10,000	1,269
Center for Special Problems	1 (R)	10,000	3,439
Public Library	23 6 (R)	341,943 9,405	81,792
Public Works			
City Hall & Power Plant	2 (C)	526,540	195,743
City Hall Annexes	3 (C)	37,190	7,628
450 McAllister Street	1 (C)	56,460	13,846
Maintenance Yard	9 (C)	72,890	33,358
19th Avenue Garage	1	4,400	435
Water Pollution Treat. Plants	35	543,330	156,849
Water Pollution Pumping Div.	18	31,325	10,423
Real Estate			
Civic Aud./Brooks Hall	2	435,400	113,299
Sheriff			
County Jails #2 and #4	7	138,970	95,616
Social Services			
150 Otis Street	2 (C)	40,900	6,496
585 Bush Street	1 (C)	43,791	7,794
1680 Mission Street	1 (C)	40,000	22,836
Rehabilitation Center	1	10,000	2,869
Miscellaneous Departments	19	230,594	44,339
TOTAL	329	5,916,775	\$2,198,901

NOTES:

- (R) Indicates buildings that are rented. (Total of 12 buildings with a combined floor space of 35,305 square feet.)
- (C) Indicates custodial and/or operational services.
- (A) Average expenditure per square foot is \$.372.
- (\*) Caretaking personnel until sold.

## PROPORTIONAL EXPENDITURES OF ALL KINDS

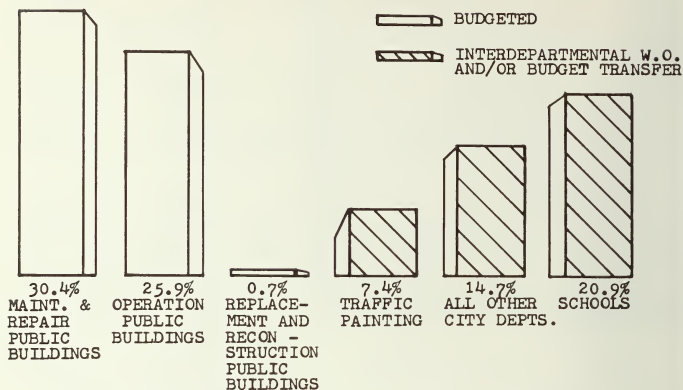


FIGURE 1

## PERSONNEL ASSIGNMENT

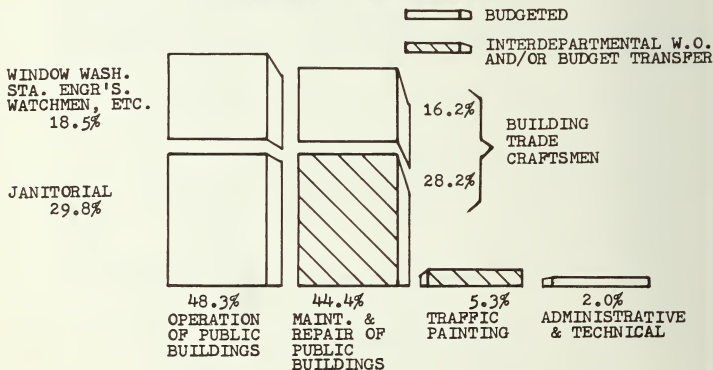
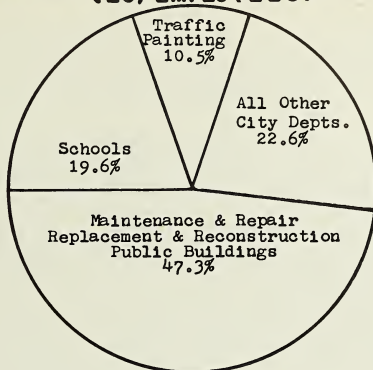


FIGURE 2



# **ASSIGNMENT OF BUILDING TRADES PERSONNEL (201 EMPLOYEES)**



**FIGURE 3**

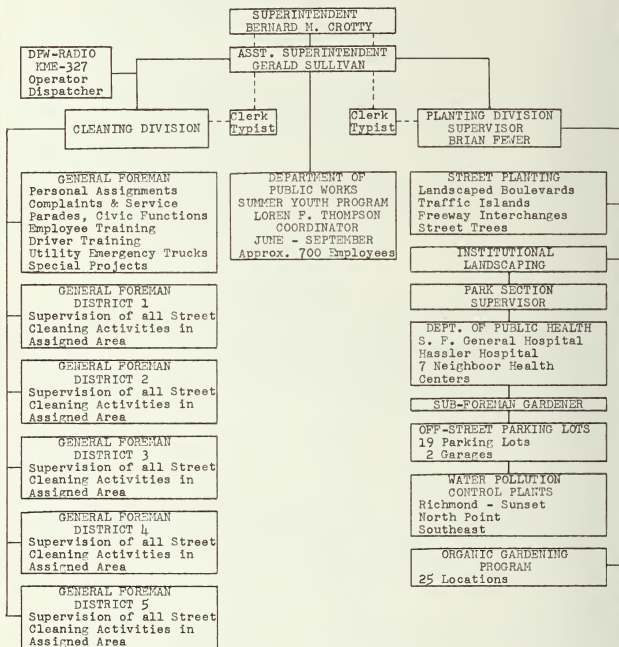
## **INFORMAL CONTRACTS AWARDED 1969-70 THRU 1973-74**



**FIGURE 4**



BUREAU OF STREET CLEANING & PLANTING  
ORGANIZATION CHART  
1973 - 1974



BUREAU OF STREET CLEANING & PLANTING  
Bernard M. Crotty, Superintendent

The Bureau of Street Cleaning & Planting is responsible for cleaning 854 miles of improved streets and 55 miles of traffic islands. The Bureau is also responsible for maintenance of 175 acres of street landscaping and 20,000 street trees.

Major subsidiary functions assigned to the Bureau include the cleaning, landscape maintenance and physical maintenance of 19 neighborhood off-street parking lots and 2 garages; regular cleaning of the tile surface of the Broadway and Stockton Street tunnels; cleaning of 10 vehicular and pedestrian underpasses and 215 public stairways. The Bureau is also responsible for cleaning of the main corporation yard at Army Street. The garage and service yard at 2350 - 19th Avenue and Planting Division toolroom at Sunset and Sloat Boulevard are also Bureau responsibilities. Other City agencies and departments find it expedient to engage our services by work-order. Another responsibility is weeding and cleaning of unimproved street areas. For all functions the Bureau had 356 employees in two divisions and 80 units of motorized equipment which traveled 530,000 miles.

#### RADIO

The Department of Public Works radio (K.M.E. - 327) which is under supervision of this Bureau logged 25,404 calls through 58 mobile units. This is an increase of 5 units over last year.

#### COMPLAINTS

Requests for service and complaints totaled 2,625. With few exceptions these calls were responded to within an hour by a crew or supervisor dispatched by radio.

#### STREET CLEANING DIVISION

Street cleaning in San Francisco is divided into four major functions:

##### 1. BLOCKMEN

In the past year there were 75 blockmen cleaning downtown, outlying business areas and older residential neighborhoods. In past years we had as many as 132 blockmen assigned to as many routes. In the last several years we have reduced this number, due to loss of employees, to where we now have 75 block routes.

##### 2. MECHANICAL SWEEPERS

Mechanical cleaning is the most efficient and economical method of removing dirt from street surfaces, if the sweepers are not prevented from getting at the dirt by parked autos.



Left: Crew removes litter from Chinatown street.  
Below: Flushing truck operates in Western Addition.



#### MECHANICAL SWEEPER STATISTICS:

##### 1. Performance Record

(See Table #1)

Miles Swept	33,955	
Refuse Removed	6,700	Cubic Yards
In Service	41%	Of Time
Downtime	59%	Of Time

Out of 13 Mechanical Sweepers an average of 5.33 sweepers were in operation.

##### 3. MOTOR FLUSHERS

Motor Flushing used properly is an essential part of a well-run street cleaning operation. Its principal use is to move litter and waste from a wide area of the street to the gutter where it is concentrated, trapped by the curb and dampened to prevent loose paper from blowing around until removed. It also serves to move unsanitary and visually objectional materials to a catch-basin or other sewer inlet. There is in addition, a desirable and salutary effect on citizens generally in that the wetting of a street produces an atmosphere and feeling of sparkling cleanliness.

#### MOTOR FLUSHERS STATISTICS

(See Table #2)

Miles Flushed	45,770
Tanks of Water Used	
(2500 Gal. Tanks)	16,545
In Service	48%
Downtime	52%

#### 4. LITTER CONTROL TRUCKS

Litter Control Trucks are assigned routes of from 130 square blocks up to 350 square blocks, depending on the cleanliness of the neighborhood. We have 21 of these trucks, each of which has a crew of 3. Their duties are to service the paper pockets (caused by wind) of which there are hundreds in the city. These crews also remove large cardboard boxes, discarded furniture and appliances, broken glass and other dangerous items from the street. They also clean streets on their routes not cleaned by blockmen or mechanical sweepers.

#### CHRISTMAS TREES

Over the past several years more and more householders, especially in the Chinatown and North Beach areas, have been discarding Christmas trees on the streets and sidewalks. The number (1674) and volume of trees has grown so large that we have had to assign a special truck and 3-man crew to remove these trees during the month after Christmas.

#### ICE

In recent years many people in San Francisco have remarked that the weather is changing. We, in the Bureau of Street Cleaning, can attest to that. Prior to 1972 it was most unusual to get a report about ice on the streets. In the winter of 1972-73 we noticed, unlike previous years, that calls were coming in from the police and other sources requesting sand for icy conditions.

In the winter of 1973-74 we had a significant increase in the number of calls regarding ice. The severity of the problem was also greater than previous years. In fact two of our employees slipped and were injured while working on icy pavements.

#### SUMMER YOUTH PROGRAM

1973 is the fourth year the Bureau of Street Cleaning & Planting administered San Francisco's very successful Department of Public Works "Gas Tax Youth Program".

The Program employed over 700 young people 16-21 years of age and 60 others comprising the office and supervisory staff. The Program cost was \$505,675.00, which included wages, salaries, rental of equipment, supplies and miscellaneous items essential to this operation.

Several other major city departments actively participated in the Program and benefited substantially therefrom.

TABLE I  
Street Cleaning Division  
Mechanical Sweeping 1973-1974

Month	Curbs Miles Swept	Sweeper Loads Number	(Use of Units in Hours 13Units) Work Downtime % Operating			Average No. Units Working
1973						
**July	3085	213	997	1355	57.61	5.93
**August	3315	212	1090	1486	57.68	5.92
**September	2082	159	714	1414	66.44	4.70
October	3213	236	1009	1383	57.81	5.48
November	2241	168	745	1439	65.88	4.44
December	2455	176	798	1282	61.61	4.99
1974						
January	2747	186	918	1370	59.87	5.22
February	2420	147	716	1156	61.74	4.97
March	2036	142	676	1508	69.04	4.02
April	3299	210	1105	1183	51.70	6.28
May	3709	228	1193	1095	47.85	6.78
June	3353	182	964	1116	53.64	6.03
TOTALS						
	33955	2259	10925	15787	710.87	64.76
Averages Per Month						
	2829	188	910	1316	59.23	5.39

\* Downtime includes all work-day time that equipment is not engaged in actual street-sweeping; such as, when undergoing repairs, held for servicing or when no driver is available.

\*\* 14 Sweeper Routes (13 Day + 1 Night)

TABLE II  
STREET CLEANING DIVISION  
Motor Flushing  
1973 - 1974

Month	Curb Miles Flushed	Stops To Fill Tanks	Use of Units in Hours (10 Units)			Average No. Units Working
			Work	Downtime*	%Operating	
1973						
July	4098	1495	890	790	47.01	5.30
August	4301	1547	905	935	50.81	4.92
September	4109	1369	782	738	48.52	5.15
October	4275	1598	885	955	51.90	4.81
November	4719	1664	974	706	42.01	5.80
December	4041	1429	830	770	48.10	5.19
1974						
January	4044	1482	926	834	47.37	5.26
February	2845	993	592	848	58.87	4.11
March	1744	608	399	1281	76.22	2.38
April	3851	1622	889	871	49.47	5.05
May	3922	1638	929	831	47.21	5.28
June	3821	1100	667	933	58.31	4.17
TOTALS	45770	16545	9668	10492	625.80	57.42
Averages Per Month	3814	1378	806	874	52.15	4.78

NOTE: Each Flusher is operated with a Driver and a Helper for operating Flushing Controls.

\* Downtime includes all work-day time that equipment is not engaged in street flushing; such as, when undergoing repairs or service or when operating on work of different nature or due to shortage of drivers.



## LANDSCAPING & STREET PLANTING DIVISION BUREAU OF STREET CLEANING & PLANTING

This Division of the Bureau is responsible for maintenance of 20,000 street trees and 175 acres of landscaping along boulevards, on traffic islands, park-like areas, freeway interchanges, neighborhood parking facilities, health centers, hospital grounds and some City buildings.

Despite funds insufficient to care for the work load responsibilities continue to increase. New projects include Street Tree Planting in three FACE areas, namely: The Duboce Triangle, Bernal Heights and Alamo Square. Additional street trees have been installed along major streets such as Powell Street between California and Sutter Streets. Large areas of landscaping and many street trees have been installed in the Hunters Point District and numerous street trees planted on Bryant Street and Twenty-fourth Street. Our responsibilities have increased by two acres and 1300 trees over last year.

### NEIGHBORHOOD PARKING FACILITIES

The number of parking facilities has remained the same, but the cost of maintenance has risen due to excessive amounts of litter and vandalism.

### HALLIDIE PLAZA

The landscaping in this beautiful plaza is maintained by a three man crew which also sweeps and washes the stairs and the plaza. The planted areas are easily maintained, but the brick and granite walks, stairs and plaza are difficult to keep clean due to litter and discarded liquids.

### NURSERIES

The Division maintains two holding nurseries, one on Laguna Honda Hospital grounds, the other on the grounds of the South East Sewage Treatment Plant.

Far Right: Brush truck towing a chipper unit. Right: Brush truck with built-in chipper.





## THE SAN FRANCISCO STREET TREE EXHIBIT

The tree exhibit installed several years ago along Funston Avenue for use by the public and by people in the landscape profession has proven most popular. The exhibit is visited frequently by those wanting to observe the various species of trees suitable for the several climatic zones in San Francisco.

Recently the story of the exhibit was featured on the front pages of the Arborist News, published by the International Shade Tree Conference.

The Ortho Division of Standard Oil of California through San Francisco Beautiful donated 1000 pounds of granular fertilizer for use in fertilizing the trees in the exhibit.

## NEW EQUIPMENT

The Street Planting Division received funds in the budget for the purchase of several new and replacement pieces of equipment. One of these was a large covered dump truck replacing a similar truck that had 100,000 miles of service. A large truck with a brush chipper built into the body has been added to the small fleet. A 35 foot hydraulic lift truck for reaching work in the taller trees is on order and will soon be in use by the Planting Division's crews.

## SUMMER YOUTH PROGRAM

The Board of Supervisors provided funds for the third successive year to employ young people for the summer. The Division super-





vised 100 young people in the planting of street trees. About 1300 new trees were planted in the Sunset, Richmond, Bernal Heights, Haight, Potrero Hill and other sections of the City. In all cases, the property owner is by agreement responsible for the subsequent maintenance.

#### PUBLIC TREE PLANTING PROGRAM

This year San Francisco celebrated its 14th Annual Plant A Tree Week starting with a proclamation by Mayor Joseph Alioto.

Interest in the Department of Public Works Tree Planting Program still runs high. This Office continually receives applications for tree planting. It is estimated that 130,000 trees have been planted privately during the 14 years of promotion by the Department.

Standard Oil of California assisted the program by sponsoring the Annual Slogan Contest. More than 16,000 entries were reviewed before selecting the winner. 'IF YOU DIG THE EARTH PLANT TREES'.

Standard Oil also provided the Division with 4,000 attractive badges bearing the winning slogan. This company is to be complimented for providing a great stimulus to the tree planting program. A story of the slogan contest was carried in the Arborist News also. Indications are that public interest is increasing and that the flood of applications will continue.

#### CONSULTATION

Members of the Street Planting Division are regularly consulted by various departments, including Municipal Railway, BART, Water Department, Social Services, Schools, Public Works Engineering and the Redevelopment Agency. Our advice and guidance is also solicited by Landscape Architects, Builders, Developers and Neighboring Communities.

#### ORGANIC GARDENING PROGRAM

A pilot program for better land use by organic gardening as proposed by Supervisor Robert Mendelsohn was adopted and is supported



Far Left: Crane lowers replacement tree into Hallidie Plaza.  
Middle: Litter in Hallidie Plaza is removed every Monday through Friday.  
Left: Clementina Gardens is one of 25 organic gardening sites in The City.

by a \$17,000 budget. A coordinator has been employed to set up the gardens on City owned vacant land. About 25 gardens have been started, most of them planted with vegetables.

#### OTHER ACTIVITIES

The Division provides landscape services to other Departments and Bureaus. As an example, plant growth is pruned so as to clear arterial signs, stop and tow-away signs, street lights and trolley wires. Plants growing in City sewer and utility easements are cut or removed to allow crews to make repairs.

#### EMPLOYEES

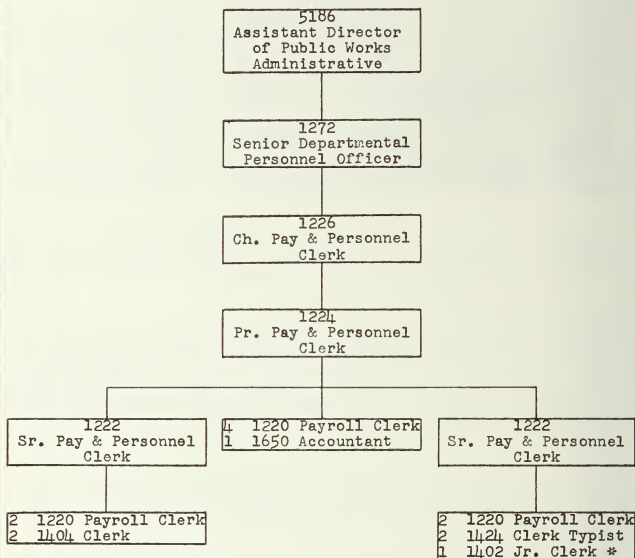
Although this Division carries a heavy workload, probably heavier proportionately than most other City Agencies, the morale and esprit de corps of our employees is remarkably high.

Our employees are encouraged to and do take courses in horticulture to improve the quality of their work and also aid them when competing in promotional examinations.

#### IN MEMORIAM

John Neylon, an unusually devoted City employee, who served as the Division's Clerk Stenographer for 12 years, died early in 1974. Mr. Neylon was an amateur horticulturist and his interest in ornamental plants coupled with his professional abilities contributed significantly to the quantity and quality of the Division's work.

ORGANIZATION CHART  
BUREAU OF PERSONNEL ADMINISTRATION



\* Position in General Office Budget;  
responsibility for assignment only

## BUREAU OF PERSONNEL ADMINISTRATION

Albert C. Ambrose, Senior Departmental Personnel Officer

The Bureau of Personnel Administration is the central personnel agency for the Department of Public Works, and a service bureau to all other operating and service bureaus of the department.

The Supervisor of the Bureau of Personnel Administration advises the Director, the Assistant Directors, the bureau heads, line supervisors and other department employees on matters relating to classification, salary, discipline, assignment, transfer, time reporting, employee evaluation, Civil Service rules and regulations, Board of Supervisors ordinances and resolutions, the City Charter, the policies of the Mayor's and Chief Administrative Officer's offices, and other personnel transactions. The Bureau Chief also acts as liaison officer between the department and the Civil Service Commission, the Controller's office and the Mayor's office in matters of personnel administration.

The staff of the Bureau of Personnel Administration is directly involved in the preparation of all departmental time-rolls and the processing of all personnel transactions; including Civil Service employee sign-up and assignment, Non-Civil Service and Limited Tenure recruiting, sign-up and assignment, the keeping of sick leave, vacation, overtime earned, personal and educational leave records, the processing of disciplinary cases, the requisitioning for permanent and temporary employments, some phases of payroll distribution, and other personnel transactions.

The operations of the Bureau of Personnel Administration in fiscal year 1973-74 included the following:

1. Preparing and processing 2,129 timerolls involving the expenditure of approximately \$18,306,624. Included in this payroll expenditure was a substantial amount for temporary employees, plus substantial disability payments.
2. Processing 297 requisitions for permanent Civil Service employees to fill vacancies due to deaths, resignations, transfers, retirements, etc.
3. Processing 905 requisitions for temporary Civil Service employments due to vacation, sick leave, personal leave, reclassifications, replacements, etc. However, because of difficulty in recruiting Civil Service employments, it was necessary to employ 1,233 Non-Civil Service employees for these authorized positions.
4. Processing 291 accident reports.

Bureau headquarters are at 253-60 City Hall, where the Bureau Chief and the bulk of his staff are located. A listing of the bureau's personnel is as follows:

1	1272	Senior Departmental Personnel Officer
1	1226	Chief Payroll and Personnel Clerk
1	1224	Principal Payroll and Personnel Clerk
2	1222	Senior Payroll and Personnel Clerk
8	1220	Payroll Clerk
1	1650	Accountant
2	1424	Clerk Typist
2	1404	Clerk
1	1402	Junior Clerk (see Organization Chart)

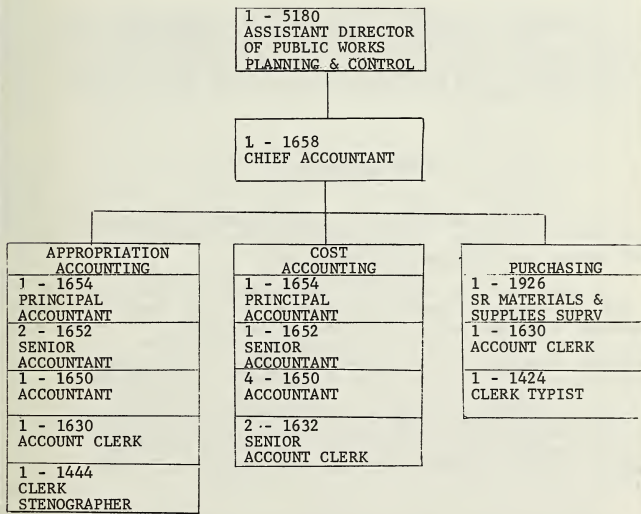


DEPARTMENT OF PUBLIC WORKS

BUREAU OF ACCOUNTS

ORGANIZATION CHART

JUNE 30, 1974



TOTAL PERSONNEL 18

## BUREAU OF ACCOUNTS

L. P. Fong, Chief Accountant

### FUNCTIONS AND ORGANIZATION

The operating functions of the Bureau embrace control of purchase order requisitions, sub-storeroom and inventories, automotive expenditures; work order job costs and invoicing; side sewer job deposits and refund accounts; Federal, State and other trust funds, State gasoline tax subventions and bond fund accounts; capital improvement accounts for the General Fund, and Recreation and Park Department Fund; the cash revolving fund; and budget preparation and controlling accounts.

This Bureau is organized as three divisions under the Chief Accountant. They are Appropriation Accounting, Cost Accounting, and Purchasing. The Bureau maintains an office at 2323 Army Street to serve the Maintenance Yard bureaus and an office at 450 McAllister Street, Room 502, to serve the City Hall bureaus.

### COST ACCOUNTING

This Division maintains accounts showing allowances, expenditures by type, encumbrances, and balances for all work orders received by this Department.

In addition, job costs are maintained for many aspects of the Department's operations such as cost of traffic painting, cost per mile of highway maintenance, cost of side sewer installations and cost of asphalt production. This Division compiles costs to repair damage to City property under the jurisdiction of this Department, and forwards a bill to the responsible party. These costs amounted to \$56,666.14 for fiscal year 1973-74 and embraced 164 cases covering damages to automotive equipment, street structures, bridges, street signs, traffic signs, street plantings, traffic signals, traffic devices, and damages to public buildings.

During the 1973-74 fiscal year, this bureau continued to assume additional responsibilities in three separate areas:  
(1) Sewer Service Charge Collection delinquent accounts and

their entailing accounting activities, (2) Industrial Waste Discharge Fees Collection accounts and their entailing accounting activities. In addition, this bureau is called upon to assume the complex and involved accounting responsibility in connection with the accelerating Industrial Waste Program activities and the expanding City Sewage treatment facility construction program under the Federal and State grants, (3) Financial and accounting activities in connection with the huge Yerba Buena Center Project Development which amounts to hundreds of millions of dollars.

#### APPROPRIATION ACCOUNTING

This Division maintains accounts showing allowances, reserves, allotments, expenditures, encumbrances, and balances, for all funds under the control of this Department. These accounts form the basis of controlling all transactions to assure that funds are expended for the purpose for which they were appropriated.

In addition to maintaining all of the operating accounts, this Division handles the fiscal processing for formal contracts covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, recreation and park improvements, and numerous capital projects for other City Departments.

The preparation and consolidation of the annual budget is also a responsibility of this Division.

#### PURCHASING

This Division is responsible for the supplying of equipment, materials, and supplies for the varied activities of this Department, the sub-storeroom and the material yard. During fiscal year 1973-74, this Division processed 6,093 Requisitions for Purchase Orders and/or Revolving Fund Orders in the total amount of approximately \$2,078,404.00 involving 30,490 items. In addition, 4,631 delivery orders involving 18,524 items, 7,082 storeroom tags involving the delivery of 21,246 items and 65 requisitions on the storekeeper involving 975 items were issued.

# OPERATING BUDGET OF BUREAU

<u>Purpose</u>	<u>Allowances</u>		<u>Expenditures</u>	
	<u>1972-73</u>	<u>1973-74</u>	<u>1972-73</u>	<u>1973-74</u>
Permanent Salaries	\$127,335	\$135,755	\$116,773	\$105,501
Overtime	475	495	474	495
Holiday Pay	912	995	912	941
Contractual Services	2,250	2,300	2,247	2,303
Materials and Supplies	1,500	1,500	1,294	1,471
Equipment	260	175	249	166
Fixed Charges	19,510	24,852	19,510	24,852
Services of Other Departments	<u>73,393</u>	<u>84,369</u>	<u>73,528</u>	<u>83,550</u>
	\$225,635	\$250,441	\$214,987	\$219,279

## WORK ORDERS TO DEPARTMENT

Fiscal Year 1973-1974

<u>Bureau</u>	<u>Number of Cost Accounts</u>	<u>Total Allowance</u>
Architecture	180	\$ 1,296,360
Building Inspection	12	84,464
Building Repair	509	3,466,801
Central Permit	5	18,103
Engineering	680	4,692,225
General Office (Contracts)	<u>95</u>	<u>20,240,604</u>
Total	<u>1,481</u>	<u>\$29,798,557</u>

# DEPARTMENT BUDGET

<u>Bureau</u>	<u>Allowances</u>		<u>Expenditures</u>	
	<u>1972-73</u>	<u>1973-74</u>	<u>1972-73</u>	<u>1973-74</u>
<u>General Fund</u>				
Accounts	\$ 225,635	\$ 250,441	\$ 214,987	\$ 218,162
Architecture	176,682	193,534	173,579	191,379
Building Inspection	2,448,185	3,069,954	2,240,091	2,979,681
Building Repair	4,844,833	5,273,227	4,666,784	5,009,732
Traffic Painting	399,451	442,248	382,744	406,515
Central Permit	180,394	267,684*	144,237	**247,992
Engineering	1,761,727	1,644,950	1,731,924	1,669,704
General Office	760,004	671,559	595,927	616,755
Personnel Administration	125,914	123,475	113,777	115,847
Water Pollution Control				
Waste Water Pumping Stations	432,068	426,632	426,250	413,569
Treatment Division	4,966,197	4,917,989	4,741,682	4,716,828
Sewer Repair	2,225,249	2,276,710	2,181,760	2,331,612
Street Cleaning	5,163,615	5,453,052	4,557,545	4,690,903
Capital Improvements	1,231,017	2,361,760	601,298	715,674

## Special Gas Tax Street Improvement Fund

General Maintenance	611,127	667,047	39,444	74,298
Construction	1,470,000	699,200	359,243	479,627
1.04 Cent Fund	4,061,814	1,750,638	2,126,191	2,740,318

## Road Fund

Street Repair	3,526,383	3,705,601	3,312,683	3,445,884
Select System Construction	0	0	0	0
Traffic Engineering	1,599,716	1,827,539	1,586,796	1,814,889
General Maintenance	1,627,020	1,680,744	1,491,611	1,667,637
Construction	1,280,804	20,004	574,281	941,947
Street Planting	504,354	549,121	484,266	519,632
1.04 Cent Matching Funds	1,119,990	224,972	1,057,134	2,183

Total	\$40,742,179	\$38,498,081	\$33,804,234	\$36,009,868
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Expenditures for capital improvements may not necessarily match allowances for any given year, since allowances may be forwarded from year to year until the project is completed. \*Includes Microfilm Bldg Record Fund Allow. \$116,632. \*\*Includes Microfilm Bldg Record Fund Expend. \$104,176

## APPENDIX: I & II



APPENDIX I

BUREAU OF ENGINEERING CURRENT

CONTRACT DATA SUMMARY

SHOWING ALL CONTRACT WORK

AWARDED OR UNDERWAY

JULY 1, 1973 - JUNE 30, 1974

Table	Type of Construction	No.	Contracts Awarded Aggregate Value	Amount Expended Fiscal Year 1973-74
A	<u>MAJOR THOROUGHFARES</u>			
	A-1 Street Construction	5	\$ 5,531,363.	\$ 7,530,270.
	A-2 Chann. & Traffic Sig.	6	484,228.	506,150.
B	<u>SECONDARY ROADS</u>			
	B-1 Reconstruction	13	681,436	1,153,908.
	B-2 Resurfacing	2	161,373.	307,821.
C	<u>STREET IMPROVEMENT</u>			
	C-1 Assessments	3	154,963.	146,290.
	C-2 Private Development	1	100,000.	28,000.
D	<u>ENVIRONMENTAL WASTE CONTROL</u>			
	D-1 Pipe Sewers	8	2,013,034.	585,192.
	D-2 Monolithic Sewers	0	0	345,767.
	D-3 Water Pollution Control	6	2,557,765.	3,713,650.
	D-4 Pumping Stations	4	488,180.	470,977.
E	<u>STREET BEAUTIFICATION</u>	10	324,969.	761,840.
F	<u>RECREATION &amp; PARK</u>	8	485,822.	720,360.
G	<u>MISCELLANEOUS</u>			
	G-1 Bldg. & Structures	6	330,516.	126,300.
	G-2 Parking Facilities	1	43,962.	0
	G-3 Slides	2	30,104.	38,333.
	G-4 Auxiliary Water Supply	2	911,662.	220,568.
	TOTAL	77	\$14,299,377.	\$16,655,426.
H	<u>Agreements &amp; Service Orders</u>	43	428,847.	\$ 1,809,840.

## APPENDIX I

## BUREAU OF ENGINEERING CONTRACTS 1973-1974

## A - MAJOR THOROUGHFARES

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>A-1 Street Construction</u>				
Army St Circle - Contract 3 Rechannelization Engstrum & Nourse	4-14-71	99%	2,850,610.	1,307,770
Market St - 5th to 7th Contract 1 Reconstruction McGuire & Hester	12- 1-71	71%	2,151,647.	873,840.
Market St - Front St To 5th St Contract 2 Reconstruction McGuire & Hester	4-26-72	84%	2,293,403.	1,078,420.
Geary Blvd At Masonic Ave Underpass Dan Caputo Co	5-31-72	68%	2,395,480.	1,152,890.
O'Shaughnessey Blvd Portola To Elk Improvement O.C. Jones & Son	5-26-72	6-26-73	259,394.	30,614.
Market St Reconstruction Brick Purchase Higgins Brick Co	4-23-71	55%	596,800.	202,218.
Market St Reconstruction Grate Purchase Olympic Foundry	5- 1-72	69%	352,985.	179,495.
Market St Reconstruction Traffic Signal Equipment C.E. Toland & Son	5- 1-72	5%	724,296.	35,159.
Market St Reconstruction Light Purchase Abbett Elect Corp	5-10-72	28%	1,383,244.	356,221.
Market St Reconstruction Steuart To Spear Reconstruction Homer J. Olsen, Inc.	1- 3-73	11-30-73	180,613.	50,203.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

A - MAJOR THOROUGHFARES

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Market St - Powell St Mall Reconstruction McGuire & Hester	2- 2-73	80%	557,502.	216,140.
San Jose Ave - Brooks to Rousseau - Bridge Altera- tions & Rechannellization Homer J. Olsen	<u>4-20-73</u>	98%	<u>497,079.</u>	485,000.
Webster St - Bush To Geary Street Widening Insurance Co. of N. America	8- 8-73	90%	219,899.	199,400.
Market St - 8th St To McCoppin 3 - Reconstruction Westate Engineers, Inc.	9- 7-73	35%	3,048,676.	1,084,000.
Market St Reconstruction - Geary To Stockton Contract 4 Reconstruction Homer J. Olsen, Inc.	11- 9-73	83%	254,642.	212,500.
Market St Reconstruction Fremont To First Contr 2B Homer J. Olsen, Inc.	12-21-73	45%	148,479.	66,400.
Judah St - 4th Ave To 20th Ave - Street & Track Reconstruction Homer J. Olsen, Inc.	5- 8-74	0	<u>1,859,667.</u>	<u>0</u>
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			5,531,363.	7,530,270

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

A - TRAFFIC SIGNALS  
& CHANNELIZATION

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>A - 2 - Traffic Signals &amp; Channelization</u>				
Downtown And Other Areas Traffic Signals Abbett Electric Corp	8-30-72	9-12-73	116,583.	23,073.
Various Safety Problem Locations Contract 1A Traffic Signal Modifications Emsco Elect Corp	3-30-73	10- 9-73	39,515.	31,325.
Various Safety Problem Locations Cont 1B Traffic Signal Modifica- tion R. Flatland	3-16-73	11-29-73	31,789.	31,789.
Various Locations - Contract 2A - School Signals Abbett Elect Corp	6- 8-73	10-30-73	13,526.	13,526.
Various Locations Contract 2B - School Signals L.K. Comstock	<u>6-20-73</u>	2-11-74	<u>50,783.</u>	50,783.
Various Locations Modification Traffic Signals Contract 9 Abbett Elect Corp	7-18-73	99%	58,226.	58,200.
Van Ness Ave - Fell St. To Bay St - Traffic Signals & Related Work Abbett Elect Corp	9-28-73	5-30-74	115,557.	115,557.
Various Locations - Traffic Signals Contract 30 R. Flatland Co.	10-17-73	99%	106,436.	105,300.
Parnassus Ave At U.C. Medical Center - Traffic Signals & Channeliza- tion Abbett Elect Corp	12-14-73	6- 6-74	15,297.	15,297.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

A-2 TRAFFIC SIGNALS &  
CHANNELIZATION

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Various Safety Problem Locations - Traffic Signals & Modif Contr 2 L.K. Comstock, Inc.	12- 5-73	41%	151,167.	61,300.
Lincoln Way - Kezar Drive Traffic Signals Abbett Elect Corp	3-20-74	0	37,545.	0
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			4 84,228.	606,150.

## APPENDIX I

## BUREAU OF ENGINEERING CONTRACTS 1973-1974

## B-1 RECONSTRUCTION

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>B-1 Reconstruction</u>				
Pierce St - O'Farrell To Golden Gate - Pavement Reconstruction McGuire & Hester	11- 1-72	11- 5-73	199,152.	67,212.
Clay St - Montgomery To Leidesdorff Street Widening O.C. Jones & Son	11-29-72	8-14-73	80,433.	11,583.
Redevelopment Area E-1 Contract L - Street Widening Mitchell Plumbing Co.	1-5- 73	6-27-73	150,260.	18,230.
La Salle Ave - Mendell To Lane - Sidewalk Narrowing B. Fontana & Son, Inc.	1-3- 73	8-16-73	103,422.	39,972.
Montgomery St - Pacific To Broadway - Pavement Recon- struction Bay Cities Paving & Gr.	1-24-73	8- 6-73	20,759.	20,759.
Various Locations - Cable Car Routes - Sidewalk Narrowing & Signals Abbett Elect Corp	2- 2-73	71%	97,820.	44,140.
Market St - Ord To Burnett Median Barriers Future Constr Co	2- 9-73	9-19-73	80,608.	26,788.
Mendell St - La Salle To Innes - Pavement Recon- struction & Sewers B. Fontana & Son	3- 9-73	8-26-73	111,576.	49,566.
Noe & Sanchez - Market St To Duboce Ave - Sidewalk Narrowing Westate Constructors	3-30-73	2-25-74	366,034.	324,814.
Steiner St Duboce To Waller Sts - Pavement Reconstruc- tion Westate Constructors	4-20-73	8- 3-73	44,120.	44,120.

## APPENDIX I

## BUREAU OF ENGINEERING CONTRACTS 1973-1974

## B-1 RECONSTRUCTION

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Sacramento St - Stockton To Powell Pavement Reconstruc- tion & Sewer	5-18-73	11-27-73	107,078.	107,076.
Scott St - Turk St To O'Farrell - Pavement Recon- struction & Sewer Annuzzi Conc. Service	5-23-73	8-31-73	82,770.	64,050.
Waldo Alley - Leavenworth Westerly - Pavement Recon- struction Annuzzi Conc. Service	7-20-73	9-25-73	7,510.	7,510.
Harney Way - Alana Way To Jamestown - Widening Contract 2 Lowrie Paving Co.	7-25-73	11- 5-73	49,390.	49,390.
Digby & Everson Sts - Side- walk Narrowing - Sewers E. Mitchell, Inc.	9-28-73	3- 4-74	22,449.	22,449.
Harney Way Widening Contract 3- Overhead Sign Structures R. Flatland Co.	2-15-74	94%	55,180.	52,100.
Griffith St & Oakdale Ave Pavement Reconstr. & Sewer E. Mitchell, Inc.	2-27-74	56%	61,718.	34,700.
Washington St - Montgomery To Sansome - Street Widening & Related Work O.C. Jones & Son	2-27-74	61%	96,225.	52,500.
Redevelopment Area D-1 Yerba Buena - Howard St Detour Road McGuire & Hester	2-22-74	5-16-74	43,947.	43,947.
Redevelopment Area D-1 - Yerba Buena - New Street Venturini Corporation	5-17-74	0	55,029.	0
Keith St - Fairfax To Evans Street Improvement E. Mitchell, Inc.	3-27-74	47%	92,693.	43,800.



## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

B - RECONSTRUCTION

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Prentiss St - Crescent Ave to Tompkins - Pavement Recon- struction				
Annuzzi Conc. Service	3-29-74	85%	26,012.	22,200.
John Muir Drive - Bicycle Path				
Anza Engr. Corp	5-24-74	0	23,950.	0
Pennsylvania Ave - 18th St To 22nd St - Pavement Reconstruction				
Lowrie Paving Co. Inc.	6-26-74	0	95,874.	0
Shields St - Arch To Byxbee Pavement Reconstruction				
Annuzzi Conc. Service	6-21-74	0	39,459.	0
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			681,436.	1,153,908.

## APPENDIX I

## BUREAU OF ENGINEERING CONTRACTS 1973-1974

## B-2 STREET RESURFACING

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Broadway And Other Streets Resurfacing Lowrie Paving Co. Inc.	3- 2-73	8-29-73	417,273.	93,183.
Randolph And Other Streets Resurfacing Lowrie Paving Co. Inc.	<u>6-29-73</u>	10- 4-73	<u>178,478.</u>	178,478.
Redevelopment Area A-2 Various Locations Street Resurfacing Lowrie Paving Co. Inc.	2-29-74	6- 4-74	36,160.	36,160.
Harney Way Contr 4- Jamestown To Bayshore Resurfacing Lowrie Paving Co. Inc.	5-17-74	0	125,213.	0
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			<u>161,373.</u>	<u>307,821</u>

CURRENT CONTRACT DATA 1973-1974

<u>STREET OR SUBDIVISION</u>	<u>FROM TO</u>	<u>CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
<u>C-1 Street Assessment Proceedings</u>					
High St - Clipper Terrace to 25th St		Calif.Engr. Co	10-13-72	1-18-74	90,286.
Peralta Ave - Rutledge To Samoset		Mullins Constr Inc	4-18-73	10- 9-73	17,323.
Jennings St - Evans Ave To Arthur		Pacific Pave Inc	<u>6-27-73</u>	1-11-74	<u>32,479.</u>
24th St - 3rd St To Tennessee		Pacific Pave Inc	7-25-73	11-26-73	6,202.
Gould St - Salinas to Paul		Pacific Pave Inc	4-26-74	11%	75,000.
Montcalm St - Macedonia To Peralta		Annuzzi Conc	10-31-73	71%	<u>73,761.</u>
TOTAL AWARDED DURING FISCAL YEAR					154,963.
TOTAL VALUE OF WORK COMPLETED DURING FISCAL YEAR					146,290.

CURRENT CONTRACT DATA 1973-1974

<u>STREET OR SUBDIVISION</u>	<u>FROM</u>	<u>TO</u>	<u>CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
<u>C-2 STREETS - PRIVATE CONTRACTS</u>						
Mt. Sutro Woods - Subdivision No. 2			Sutro Dev.	5-12-67	95%	4,000.
Mt. Sutro Drive			Sutro Dev.	3-13-68	95%	5,800.
Vista Francisco No. 2			Sunset Grad.	10- 6-71	95%	86,100.
Yale St - South To Felton			Galli Homes	3-31-72	1- 9-74	28,000.
Lake Merced Hills			G.B.I. Co	2- 2-73	95%	148,000.
Princeton, Amherst & Yale Sts			Western Sub.	6- 6-73	40%	100,000.
TOTAL AWARDED DURING FISCAL YEAR						100,000.
TOTAL VALUE OF WORK COMPLETED DURING FISCAL YEAR						28,000.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

D-1 - SEWERS - PIPE  
VITRIFIED CLAY &  
CONCRETE

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>D-1 - Sewers - Pipe Vitrified Clay &amp; Concrete</u>				
8th Ave & Judah St Sewer Enlargement Homer J. Olsen, Inc.	4-13-73	12-24-73	255,030.	222,720.
Fremont - Beale - Main Sts - Market To Mission - Sewer Replacement Annuzzi Conc. Serv	<u>6-15-73</u>	99%	<u>90,932.</u>	90,900.
Ridgewood Ave - Joost To Hearst - Sewer Enlargement E. Mitchell, Inc.	9-19-73	1-21-74	64,451.	64,451.
32nd ave - Fulton To 340' North - Sewer Enlargement E. Mitchell, Inc.	9-28-73	2- 1-74	44,296.	44,296.
Clementina St - 4th St To 5th St - Sewer Replacement Shaw Construction Co	9-28-73	4- 1-74	39,525.	39,525.
Diamond St - 23rd St To 24th St - Sewer Enlargement Bepco, Inc.	1-16-74	97%	92,065.	89,800.
Franklin St - Pacific To Vallejo - Sewer Enlargement Dale Williams, Inc.	3-29-74	30%	95,322.	29,000.
Capp St - 24th St To 25th St - Sewer Replacement Bepco, Inc	5-24-74	0	40,738.	0
Hyde St - Sewer Outfall Consolidation Homer Olsen	6-12-74	0	1,632,137.	0
John Muir Drive - Drainage Facilities Shaw Constr.	2-27-74	5-24-74	4,500.	4,500.
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			<u>2,013,034.</u>	<u>585,192.</u>

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

D-2 - SEWERS - CONCRETE  
MONOLITHIC

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
D-2- SEWERS - CONCRETE - <u>MONOLITHIC</u>				
Yerba Buena Center Area Sewer Relocation Pamco Constructors	<u>7-19-72</u>	11- 8-73	2,131,547.	<u>345,767.</u>
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			0	<u>345,767.</u>

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

D-3- WATER POLLUTION  
CONTROL PLANTS

<u>DESCRIPTION &amp; CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>D-3-Water Pollution Control Plants</u>				
<u>Hydrologic &amp; Hydraulic Data</u>				
Acquisition - Data Recording System				
L.F.E. Corporation	8-14-70	99%	344,786.	0
S.E.W.P. Control Plant				
Macroscopic Solids Removal				
Cahill-Scott J.V.	2- 2-72	10- 5-73	926,911.	315,361.
N.P.W.P. Control Plant				
Salt Water Pumping Facilities				
Mitchell Plumbing Co.	8-11-72	4-26-74	103,646.	36,146.
Baker St Outfall Facility				
Modification & Betterment				
Monterey Mechanical	9-15-72	8- 8-73	247,430.	33,230.
S.E.W.P. Control Plant				
Sludge Processing Facilities				
Mitchell Plumbing Co.	8-18-72	85%	100,000.	36,251.
S.E.W.P. Control Plant				
Chlorination System				
Improvement				
Mitchell Plumbing Co.	12- 8-72	7- 2-73	79,466.	8,726.
S.E.W.P. Control Plant				
Gas Recirculation 6 & 10				
Scott of Calif.	3-23-73	90%	552,936.	484,150.
S.E.W.P. Control Plant				
Gas Recirculation Group I				
Monterey Mechanical	2-28-73	94%	1,598,244.	1,491,400.
N.P.W.P. Control Plant				
Chlorination Improvements				
E. Mitchell, Inc.	4- 6-73	8-24-73	125,137.	92,107.
N.P.W.P. Control Plant				
Flocculation Facilities				
Scott Of Calif.	4-13-73	90%	115,600.	103,900.
S.E.W.P. Control Plant				
Flocculation Facilities				
Scott Of Calif.	4-13-73	11-30-73	63,077.	63,077.



## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

D-3 WATER POLLUTION  
CONTROL PLANTS

<u>DESCRIPTION &amp; CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
R.S.S.T. Plant Digester Cleaning Winton-Jones, Inc.	5- 9-73	6-15-73	37,725.	37,725.
S.E.W.P. Control Plant Sludge Filtration Contract 2 Monterey Mechanical	8-22-73	56%	1,426,329.	794,400.
R.S.S.T. Plant Alum & Polymer - Coagulant System E. Mitchell, Inc.	7-11-73	3-25-74	140,137	140,137.
S.E.W.P.C. Plant Chemical Feed System E. Mitchell, Inc.	8- 1-73	86%	30,139.	26,640.
N.P.W.P. Control Plant Outfall Diffusers Haviside Hastings, Inc.	1- 4-74	8%	569,860.	45,000.
R.S.W.P. Control Plant Sealing Digester Roof Universal Painting, Corp.	1-18-74	55%	9,900.	5,400
S.E.W.P. Control Plant Sludge Filtration Impr. Hoppers Dalzell Corp.	4-12-74	0	381,400.	0
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			2,557,765.	3,713,650

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

D-4 - PUMPING STATIONS

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>D-4 - PUMPING STATIONS</u>				
Marina Waste Water Pumping Station - Mechanical Rehabilitation A.F.B. Contractors	<u>11-24-72</u>	12-14-73	<u>57,567.</u>	38,577.
County Jail Nos 2 & 4 Sewage Pump Sta & Force Main Dalton Construction	11-21-73	89%	447,360.	400,600.
Baker St Outfall Air Flotation Facility-Replace Slate Deck E.J. Finnerty & Son	3-20-74	0	9,020.	0
Marina Pumping Station Force Main Mitchell Plumbing Co	7-18-73	5- 7-74	27,400.	27,400.
4th St. Waste Water Pumping Sta - Relocation Exhaust Vent Mitchell Plumbing Co	9-23-73	12- 4-73	<u>4,400.</u>	<u>4,400.</u>
<b>TOTAL AWARDED &amp; EXPENDED DURING FISCAL YEAR</b>			<u>488,180.</u>	<u>470,977.</u>

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

E - STREETS -  
BEAUTIFICATION

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>E- STREETS - BEAUTIFICATION</u>				
Bernal Heights Face Area Landscaping Castle Maintenance Serv.	3- 2-73	9-13-73	8,296.	8,296.
Marina District Lights Part II - Street Lighting Mahoney Electric, Inc	3- 2-73	11-15-73	63,925.	42,595.
Duboce Triangle Face Area Landscaping Design Dynamics Corp	3-16-73	8- 2-73	17,668.	4,798.
25th Ave - Fulton To Scenic Way - Street Lighting L.K. Comstock, Inc.	3-23-73	12- 7-73	70,066.	61,786.
Bryant St - Army St To 20th St Sidewalk Trees Design Dynamics	6- 1-73	10-18-73	21,911.	21,911.
24th St - Potrero St To Mission St - Sidewalk Trees Munkdale Bros., Inc.	5-23-73	10-11-73	27,007.	27,007.
Anza Vista Area - Street Lighting R. Flatland Co	6- 8-73	12-27-73	52,060.	52,060.
Market St Reconstruction Steuart To 7th - Sidewalk Trees L.K. Comstock, Inc.	6-27-73	72%	445,436.	321,500.
Golden Gate Heights - Street Lighting & Related Work Abbett Elect Corp	6-29-73	<u>8-29-73</u>	<u>10,822.</u>	10,822.
Potrero Hill Area - Street Lighting & Related Work Emsco Electric Corp	7-25-73	2- 1-74	62,724.	62,724.
Bay St - Jones To Taylor Street Lighting & Related Work Emsco Electric Corp	8-15-73	12- 4-73	8,326.	8,326.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

E - STREETS -  
BEAUTIFICATION

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
South of Market - Contract 4 Street Lighting & Related Work Abbett Electric Corp	8-17-73	4-30-74	37,128.	37,128.
Apparel City Area - Street Lighting & Related Work Abbett Electric Corp	11- 9-73	4-24-74	51,464.	51,464.
Mission Area - Street Lighting & Related Work Abbett Electric Corp	11-28-73	72%	64,726.	46,400.
Various Locations - Western Addition Underground Service Connection Custom Electric Co.	3-20-74	0	6,408.	0
Underground Service Con- nection - Monterey Blvd. J.J. Elect.	10- 3-73	1-29-74	1,423.	1,423.
Powell & Stockton St - California To Broadway - Street Lighting & Related Work Abbett Elect Corp	2- 6-74	9%	41,970.	3,600.
Telegraph Hill Blvd. Embankment Restoration Tamal Constr Co	5-17-74	0	45,600.	0
Mission St - BARTD Station Area - Remove Palm Trees Wilkerson	5-29-74	0	5,200.	0
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			324,969.	761,840.

# APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

F - RECREATION PARK

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>F-RECREATION PARK</u>				
Seward St Mini Park Mapco Constr Co	9-29-72	7-24-73	45,934.	10,474.
Margaret Hayward Playground Rehabilitate Floodlight Steiny & Co	9-29-72	7-20-73	33,756.	4,776.
Hunters Point Redevelopment Area - Palou-Jennings Park Tamal Constr Co	11- 1-72	7-31-73	151,810.	32,830.
Hunters Point Redevelopment Area - Tot Lots - Sites 1 & 2	11-10-72	4-24-74	308,492	223,082.
Chinese Playground Develop- ment - Phast I Collishaw Corp	12-22-72	8- 3-73	72,840.	17,670.
S.F. Zoological Gardens Asian Elephant Yard Landscaping Tamal Constr. Co.	1-19-73	9-28-73	67,172.	27,032.
Various Rec Park Locations Irrigation System Washington Square Christner Co. Inc.	11-29-72	5-17-73	16,022.	2,702.
Various Rec Park Locations No. 2 - Multiple Park Lighting Electrical Constr & Sales	1-31-73	7-17-73	50,319.	12,519.
Various Rec Park Location Multiple Park Lighting No.1 Electrical Constr & Sales	1-31-73	7-17-73	13,101	3,021.
Civic Center Area - Land- scaping & Irrigation Tamal Construction Co.	5-16-73	9-21-73	11,698.	11,698.
Broadway - Leavenworth To Hyde Mini Park Tamal Construction Co.	<u>6- 6-73</u>	10- 5-73	<u>27,802.</u>	27,802.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

F-RECREATION PARK

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Mission Playground - Rehabilitation Tamal Construction Co.	7-25-73	2-22-74	81,775.	81,775.
Hunters Point Area - Ridgepoint Plaza Landscaping De Narde Construction Co.	10-10-73	76%	177,370.	134,000.
Golden Gate Park - Strybing Arboretum Service Road Anza Engineering Corp.	9-12-73	1-25-74	7,995.	7,995.
Bayview Playground - Irrigation System Tamal Construction Co.	1- 4-74	99%	65,708.	65,700.
Marina Small Craft Harbor Dredging Contract 3 Bepco, Inc.	1- 4-74	3-16-74	11,849.	11,849.
S.F. Zoological Gardens Reconstruct Hippo Fence De Narde Constr.	11-30-73	1-30-74	2,935.	2,935.
Marina Small Craft Harbor Vessel Waste Discharge Plumbing Duncanson Harrelson	3- 1-74	62%	68,021.	42,500.
Funston Playground Rehabilitate Light System Brayer Elec.	6-19-74	0	70,169.	0
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			485,822.	720,360.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

G-1 - BUILDINGS &  
STRUCTURES

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>G-1 BUILDINGS &amp; STRUCTURES</u>				
Civic Center Garage Rehabilitate Elevators Dover Elev. Co.	10-13-72	8-15-73	9,923.	3,803.
Fire Protection Pipe Yard Misc. Improvements Nibbi Bros.	11-10-72	6-25-73	57,294.	6,894.
Esmeralda Ave - Coleridge To Bernal Heights Stairway M. & P. Constr. Co.	3-14-73	1-17-74	92,258.	79,388.
Harney Way Near Jamestown Pedestrian Overpass Nibbi Bros.	4-18-73	10-17-73	72,260.	40,760.
City Hall Electronic Data Processing Air Conditioning N.V. Heathorn	5-11-73	1-31-74	57,187.	57,187.
Church St. At 19th Pedestrian Overpass Safety Fence Crown Iron Works	5-16-73	0	15,596.	0
Islais Creek Bridge Repairs Early Engr. Co.	6- 8-73	99%	108,459.	108,400.
450 McAllister St - City Hall Annex - Air Conditioning Micro Film Room N.V. Heathorn, Inc.	5-25-73	8-23-73	5,735.	5,735.
Eugenia Ave - Prospect To Winfield Stairway California Engr. Constr Inc.	<u>6-15-73</u>	10-29-73	<u>54,665.</u>	54,665.
Municipal Asphalt Plant Exhaust Gas Cleaning System E. Mitchell, Inc.	7-18-73	61%	105,350.	64,300.
3rd At Bridge At Islais Creek Replace Fenders Westate Constructors, Inc.	9-21-73	0	147,710.	0



## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

G-1 - BUILDINGS &  
STRUCTURES

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
City Hall Service Elevators Reconstruct Door Closure Otis Elevator Co.	1-11-74	0	12,475.	0
450 McAllister & 150 Otis St Elevator Modification American Elev. Co.	5- 8-74	0	7,996.	0
Various Locations - Stairway Handrails Alcorn Fence Co.	5- 8-74	0	50,985.	0
Islais Creek Bridge At 3rd St - Repair Fender Early Engr. Corp.	2-29-74	4-24-74	6,000.	1,600.
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			330,516.	126,300.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

G-2 PARKING FACILITIES

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>G-2 PARKING FACILITIES</u>				
Mission Bartlett Parking Plaza Rehabilitation J. H. Fitzmaurice, Inc.	3-20-74	0	43,962.	0
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			<u>43,962.</u>	

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973 - 1974

G-3 - SLIDES

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>G-3 - SLIDES</u>				
25th St - Slide Stabilization Slide Correction Chet Smith	<u>5- 2-73</u>	3-19-74	<u>8,229.</u>	8,229.
25th St - High St - Slope Stabilization Malcolm Drilling Co	8-17-73	8-21-73	26,487.	26,487.
Sansome St - Filbert To Green - Temporary Rock Barriers Anchor Fence	11-21-73	2-11-74	<u>3,617.</u>	<u>3,617.</u>
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			30,104.	38,333.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

G-4 AUXILIARY WATER  
SUPPLY SYSTEM

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>G-4 AUXILIARY WATER SUPPLY SYSTEM</u>				
Redevelopment Area D-1 A.W.S.S. Relocation McGuire & Hester	5-19-72	10-11-73	169,152.	14,152.
Market St Reconstruction U.N. Plaza - Relocation A.W.S.S. E. Mitchell Co.	2-21-73	9-28-73	80,827.	80,827.
Redevelopment Area E-1 Fire Protection Work Underground Constr Co	<u>3-28-73</u>	11- 5-73	<u>125,589.</u>	125,589.
Taylor St - Beach St To Bay St - A.W.S. Extension Mitchell Plumbing Co.	5- 1-74	0	131,915.	0
Fire Protection Pump Station No. 1 - Convert to Diesel S & Q Construction	5-17-74	0	<u>779,747.</u>	<u>0</u>
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			911,762.	220,568

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973 - 1974

H- SERVICE ORDERS &  
AGREEMENTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Traffic Sign Purchase C.E. Toland & Son	7-14-72	17%	61,552.	10,752.
Plans For Waste Management Gilbert & Associates	8-17-72	100%	111,000.	12,157
Consulting Service Geary Underpass - Woodward Lundgren & Assoc.	8-25-72	28%	4,950.	1,370.
Upper Market Reconstruction - Whuler Patri	10-11-72	13%	71,000.	0
Pilot Plant Studies CHZM-Hill	10-25-72	75%	1,230,000.	898,805.
Yerba Buena Sewer Subsurface Conditions - Dames & Moore	11-22-72	47%	4,500.	291.
Crosstown Transport System Dames & Moore	12- 4-72	81%	13,000.	1,055.
Crosstown Transport System Woodward Lundgren	12- 4-72	26%	31,500.	8,323.
Fire Dept Command Control System System Science Develop	11-22-72	100%	96,500.	24,226.
Evaluate Construction Materials Testing Eng. Inc.	1-17-73	2- 8-74	868.	337.
Remove Boulder Lowrie Paving Co.	1-19-73	2- 8-73	520.	520.
Toxicity On Marine Biota - Pilot Plant Brown & Caldwell	2- 9-73	0	301,500.	0
Highland Ave Bridge - Foundations Hawke	2-14-73	1-23-74	1,000.	1,000.
Consultants To Perform Work - Bart Contracts Agronomics	2-21-73	100%	8,996.	2,169.
Waste Water Management - Master Plan Gilbert & Associates	3-23-73	11- 1-73	5,000.	5,000.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973-1974

H- SERVICE ORDERS &  
AGREEMENTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Boiler Failure Repairs Ocean Shore Iron Works	5-23-73	12-27-73	827.	827.
Report Conditions Of Digester Covers Rob't W. Hunt Co	5- 4-73	7-27-73	350.0	350.
Various Slide Areas Dames & Moore	5- 9-73	100%	3,966.	3,966.
Chlorination & DeChlorination Impr. Geo Clifford White	5-16-73	1-10-74	5,000.	5,000.
Vibration Tests On Pumps Roger P. Maineri	5-23-73	10-10-73	1,500.	1,500.
Advise Waste Water Management Gilbert & Assoc.	5-30-73	36%	5,000.	1,814.
R.S.S.T. Plant - Alum Addition Study CH-Z Hill	5-30-73	10-19-73	3,400.	3,400.
Pump Performance STA No. 1 Pump Repair Service	6- 6-73	1-17-74	4,308.	4,308.
Wet Weather Evaluation Engr. Science	6- 8-73	84%	148,807.	125,861.
Underwater Inspection - Pan Marine Constructors	6-15-73	9-17-73	3,603.	3,603.
Repair Third St. Bridge - Early Eng.	6-15-73	1- 3-74	18,987.	18,987.
Inspect Floating Digester Cover Rob't W. Hunt	6-20-73	0	4,000.	0
Consult Highland Ave. Bridge Hawke Engr.	6-20-73	3-13-74	965.	965.
Remove Defective Retaining Wall Lewis Merlo	6-22-73	9-24-73	1,060.	1,060.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973 - 1974

H- SERVICE ORDERS &  
AGREEMENTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Telegraph Hill Pump Control Circuits - Jack Hopkins	6-20-73	12- 6-73	2,896.	2,896.
Oceanographic & Toxicity Study Advise - Edmund H. Smith	7-11-73	46%	4,500.	2,059.
Industrial Waste Program Advise - Woodward Envicon, Inc.	7-25-73	4- 1-74	3,000.	3,000.
Welding Inspection - Highland Bridge Abbot Hanks	8- 1-73	1- 3-74	8,465.	8,465.
Preventive Maintenance Hydrologic Data Wismer & Becker	8- 3-73	81%	35,704.	29,077.
Oceanographic & Toxicity Study Wheeler North	8- 8-73	0	4,500.	0
Oceanographic & Toxicity Study Curt's Newcombe	8- 8-73	0	4,500.	0
Oceanographic & Toxicity Study De Pat Wilde	8- 8-73	18%	4,500.	825.
Waste Water Management Public Relations Gilbert & Assoc.	8- 8-73	0	5,000.	0
Oceanographic & Toxicity Study P.H. McGauhey	8- 8-73	0	4,500.	0
Repair Testing Machine Pacific Scientific	8-15-73	0	2,200.	0
Slide Repairs Various Locations Dames & Moore	8-17-73	6- 4-74	4,000.	4,000.
Field Investigation - Beach St Dames & Moore	8-22-73	2- 6-74	1,403.	1,403.



## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973 - 1974

H- SERVICE ORDERS &  
AGREEMENTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Soil Percolation Tests Raymond Vail	10-10-73	1- 4-74	304.	304.
Acoustic & Vibration Tests on Pumps Roger Mainer1	10-24-73	2-22-74	1,000.	1,000.
Waste Water Management - Advise - Gilbert & Assoc.	11- 2-73	98%	50,000.	49,297.
Welding Inspection - Highland Bridge Abbot Hanks	11- 9-73	2-14-74	3,033.	3,083.
H.P. Pump Station #1 Performance Pump Repair	10- 5-73	1-15-74	414.	414.
Construction Material Testing Hales Testing Lab.	12- 5-73	22%	1,000.	225.
Waste Water Management Alex D. Rudavsky	12- 7-73	0	1,000.	0
N.P. Sludge Storage Tank Clifford White	12-14-73	4- 6-74	2,500.	2,500.
Consult Highland Bridge Fdnt Hawke Engr.	12-14-73	3-14-74	1,000.	1,000.
Grounding Probes - Baker St E. Mitchell, Inc.	1- 4-74	3-14-74	383.	383.
Log Cabin Ranch Ground Investigation Dames & Moore	1-11-74	70%	5,000.	3,527.
Water Pressure Surge - Fluid Kinetics Corp	1-30-74	0	5,000.	0
Soil Investigation Crosstown Transport Woodward Lundgren	1-30-74	5- 1-74	4,968.	4,968.
Environmental Impact Report Wallace E. Stokes	2-27-74	6-11-74	5,000.	5,000.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973 - 1974

H- SERVICE ORDERS &  
AGREEMENTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Soils Investigation Crosstown Transport Woodward Lundgren	3-15-74	5-10-74	4,985.	4,985.
Pipe Inspection Service Hornkohn Laboratories	3-15-74	0	600.	0
U.C. To Test Hydraulic Model U. California	3-27-74	0	4,800.	0
San Jose Ave Retaining Wall - Review Hawke Engr.	4- 3-74	0	4,953.	0
N.P. Plant Diffusers - Underwater Inspection Pan Marine Constr.	4- 5-74	0	15,000.	0
Crosstown Transport - Soils Investigation Woodward Lundgren	4-17-74	75%	5,000.	3,733.
Force Main Water Pressure Analysis Fluid Kinetics	4-24-74	0	5,000.	0
Evaluate Construction Materials Hales Testing Lab	5- 1-74	15%	1,000.	150.
Slide Repairs - Various Dames & Moore	5-22-74	0	4,000.	0
Play Equipment Tamal	3-15-74	0	1,664.	0

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973 - 1974

H - SERVICE ORDERS &  
AGREEMENTS

<u>DESCRIPTION AND CONTRACTORS</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
Inspect Welding Testing Engineers	5-17-74	0	5,000.	0
Overview Facilities Plan J.B. Gilbert	5- 3-74	0	100,000.	0
RSWPCP - Chemical Feed Mitchell	3-22-74	66%	30,000.	19,800.
RSWPCP - Digester Gas Piping Mitchell	6- 7-74	0	25,000.	0
Environmental Import Report Stokes	5-29-74	0	20,000.	0
Remove Tree Davey Tree Surgery	1- 9-74	5- 7-74	285.	285.

## APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1973 - 1974

B.A.R.T.  
SERVICE ORDERS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>
<u>B.A.R.T. - SERVICE ORDERS</u>				
Van Ness - Station	3- 1-72	10-30-73	8,945.	8,945.
Van Ness - Station	4- 5-72	1-18-73	11,478.	11,478.
Castro St - Station	1-17-73	0	127,191.	0
Civic Center Station Mezz	7-21-72	9-19-73	11,142.	11,142.
Powell St - Station	8-29-73	2-14-74	<u>33,236.</u>	33,236.

## APPENDIX II

BUREAU OF ARCHITECTURE  
CURRENT CONTRACT DATA SUMMARYShowing All Contract Work Awarded or Under Construction  
July 1, 1973 - June 30, 1974

## I Contracts Awarded During Fiscal Year 1973-1974

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1973-1974
A-1	New School Construction	3	\$ 904,364.00	\$ 225,310.00
A-2	Misc. Alterations - Schools	27	9,184,877.00	2,741,646.00
A-3	Acoustical	0	0	0
A-4	Roofing Jobs	1	27,345.00	0
A-5	Resilient Flooring	1	5,833.00	0
A-6	Int. & Ext. Painting	1	27,253.00	0
A-7	Yard Paving	4	245,373.00	70,486.00
B-1	Fire Dept. - New Const.	2	1,571,940.00	16,969.00
B-2	Fire Dept. - Alterations	0		
C-1	S.F. General Hospital	1	11,727.00	7,388.00
C-2	Laguna Honda Hospital	2	11,202.00	0
C-3	Health Center Buildings	2	67,375.00	27,806.00
D	DeYoung Memorial Museum	1	8,100.00	4,635.00
E	Youth Guidance Center	2	29,732.00	29,732.00
F	Civic Center	5	97,132.00	65,458.00
G	Hall of Justice	5	75,505.00	58,707.00
H	Miscellaneous	13	753,817.00	325,010.00
Sub Totals		70	\$13,021,595.00	\$3,573,147.00

## II Other Contracts Under Construction During Fiscal Year 1973-1974

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1973-1974
A-1	New School Construction	7	\$10,459,916.00	\$ 6,089,451.00
A-2	Misc. Alterations - Schools	12	5,719,691.00	3,591,438.00
A-3	Acoustical Work	0	0	0
A-4	Roofing Jobs	5	22,073.00	22,073.00
A-5	Resilient Flooring	0		
A-6	Int. & Ext. Painting	6	81,418.00	81,418.00
A-7	Yard Paving	1	7,458.00	7,458.00
B-1	Fire Dept. - New Const.	2	513,334.00	196,534.00
B-2	Fire Dept. - Alterations	1	270,421.00	270,421.00
C-1	S.F. General Hospital	9	30,147,639.00	6,927,863.00
C-2	Laguna Honda Hospital	3	121,905.00	90,599.00
C-3	Health Center Buildings	4	156,319.00	156,319.00
D	DeYoung Memorial Museum	0		
E	Youth Guidance Center	0		
F	Civic Center	3	12,811.00	12,811.00
G	Hall of Justice	1	5,111.00	5,111.00
H	Miscellaneous	7	12,272,117.00	6,049,851.00
Sub Totals		61	\$59,790,213.00	\$23,501,347.00

III All Contracts Awarded or Under Construction Fiscal Year 1973-1974  
(Total of I and II)

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1973-1974
A-1	New School Construction	10	\$11,364,300.00	\$ 6,314,761.00
A-2	Misc. Alterations - Schools	39	14,904,568.00	6,333,084.00
A-3	Acoustical Work	0	0	0
A-4	Roofing Jobs	6	49,418.00	22,073.00
A-5	Resilient Flooring	1	5,833.00	0
A-6	Int. & Ext. Painting	7	108,671.00	81,418.00
A-7	Yard Paving	5	252,831.00	77,944.00
B-1	Fire Dept. - New Const.	4	2,085,274.00	213,503.00
B-2	Fire Dept. - Alterations	1	270,421.00	270,421.00
C-1	S.F. General Hospital	10	30,159,366.00	6,935,251.00
C-2	Laguna Honda Hospital	5	133,107.00	90,599.00
C-3	Health Center Buildings	6	223,694.00	184,125.00
D	DeYoung Memorial Museum	1	8,100.00	4,635.00
E	Youth Guidance Center	2	29,732.00	29,732.00
F	Civic Center	8	109,943.00	78,269.00
G	Hall of Justice	6	80,616.00	63,818.00
H	Miscellaneous	20	13,025,934.00	6,374,861.00
Totals		131	\$72,811,808.00	\$27,074,494.00

CURRENT CONTRACT DATE 1973-74

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-1 NEW SCHOOL CONSTRUCTION					
Charles R. Drew School (3343) (Bayview School) Gen. Construction S.J. Amoroso Const. Co.	11-19-71	7-6-73	\$2,035,077	\$1,432,066	1964 Bond
City College of S.F. (3483) Smith Hall-Statler Wing Gen. Const. McBroom & Cecchini	7-21-72	1-4-74	\$ 441,314	\$ 221,955	S.F. Comm. College
Diamond Heights High School (J Eugene McAteer) (3466) Gym and Playfields Cahill Const. Co., Inc.	8-11-72	10-17-73	\$2,449,184	\$ 614,823	1964 Bond
Cabrillo School (3515) Gen. Const. S.J. Amoroso Const. Co.	11-17-72	6-17-74	\$1,281,704	\$ 892,405	1964 Bond
Hunters Point South School (Geo. Washington Carver) Gen. Const. (3420-R) Strauss Const. Co., Inc.	12-20-72	78%	\$2,826,850	\$1,785,968	Spec. Fund
City College of S.F. (3533) Gen. Construction Arntz Bros.	2-21-73	85%	\$1,263,600	\$1,000,569	S.F. Comm. College

## CURRENT CONTRACT DATE 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-1 NEW SCHOOL CONSTRUCTION (continued)					
John L. Roberts Development Center - New Bldg. (3539) M & H Construction Co.	6-20-73	96%	\$ 162,187	\$ 141,665	District
City College of S.F. (3604) Interim Student Health Facility M & H Construction Co.	9-14-73	96%	\$ 71,307	\$ 54,432	S.F. Comm. College
Treasure Island School (3584) New Classrooms Mapco, J.V.	3-29-74	25%	\$ 796,600	\$ 170,878	District
Emerson School (3690) Child Care Center - New Transwestern Const. Co.	6-26-74	0	\$ 36,477	0	Child Care Centers
Total Aggregate Value and Amount Expended			\$11,364,300	\$6,314,761	

## CURRENT CONTRACT DATE 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-2 MISC. ALTERATIONS					
Paul Revere School Annex (3437) Reconst. Work, Phase II DeNarde Const. Co.	6-30-72	1-23-74	\$ 912,321	\$ 259,843	Field Act
Alvarado School (3517) Retaining Walls H. E. Rahlmann Co.	1-10-73	8-17-73	\$ 13,959	\$ 2,190	District
Galileo High School (3490) Reconst. of West Bldg. DeNarde Const. Co.	3-2-73	99%	\$1,547,918	\$ 842,256	Field Act
Various Children Centers (3547) Grease Hood & Exhaust Fan Edison, Sarah B. Cooper & Francis Scott Key Centers Valley Sheet Metal Co., Inc.	5-2-73	10-19-73	\$ 14,637	\$ 14,637	Children Centers
Galileo High School (3548) Install Clean Drapes Kinell of California	5-2-73	80%	\$ 4,119	\$ 3,600	District
A. Lincoln High School (3549) Alterations to Boys' Beanery A & P Const. Co., Inc.	5-11-73	9-25-73	\$ 3,636	\$ 3,636	District



## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-2 MISC. ALTERATIONS (continued)					
Marshall School Annex (3546) Relocation of Portables A & P Construction, Inc.	5-11-73	11-28-73	\$ 177,311	\$ 177,311	Field Act
Winfield Scott School (3528) Reconstruction S.J. Amoroso Const. Co., Inc.	5-30-73	99%	\$ 225,415	\$ 198,816	Field Act
Various Children Centers (3557) Edison, Mission, Frank McCoppin, Page-Broderick Wm. McIntosh & Son	5-30-73	9-4-73	\$ 34,854	\$ 34,854	Children Centers
James Lick Jr. High School Struc. Rehab. (3319) Nibbi Bros.	6-1-73	99%	\$ 647,909	\$ 580,178	Field Act
Aptos Jr. High School (3535) Phase I - Reconst. DeNarde Const. Co.	6-27-73	1-23-74	\$ 267,143	\$ 267,143	Field Act
Alamo School (3503) Reconstruction S.J. Amoroso Const. Co.	6-29-73	79%	\$1,870,469	\$1,206,974	Field Act
Sanchez School (3529) Reconstruction DeNarde Const. Co.	7-6-73	99%	\$ 683,564	\$ 612,182	Field Act

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-2 MISC. ALTERATIONS (continued)					
Aptos Jr. High School (3582) Relocation of two Portable Bldgs. H.E. Rahlmann Co.	7-6-73	9-19-73	\$ 43,938	\$ 43,938	Field Act
City College of S.F. (3553) New Tennis Courts J.H. Fitzmaurice, Inc.	7-20-73	5-1-74	\$ 111,026	\$ 111,026	S.F. Comm. College
Luther Burbank Jr. High (3595) School - Fire Damage Repair H.A. Zipperle Inc.	8-10-73	10-9-73	\$ 14,156	\$ 14,156	District
Portable Buildings - Relocate From Luther Burbank (3586) To Corbett Comm. School H. E. Rahlmann Co.	7-18-73	9-1-73	\$ 17,972	\$ 17,972	District
Dr. Charles R. Drew School (Bayview School) (3597-R2) Landscape Work Neil Shooter Co.	10-12-73	1-9-74	\$ 28,490	\$ 28,490	District
J Eugene McAteer High School (Diamond Heights) (3632) Intercom Expansion Decker Electric Co., Inc.	12-7-73	9-3-74	\$ 11,441	\$ 11,441	District

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-2 MISC. ALTERATIONS (continued)					
Mission High School (3500) Reconstruction - Phase I S.J. Amoroso Const. Co.	8-5-73	52%	\$1,805,300	\$ 840,166	Field Act
LeConte School (3530) Reconstruction Nibbi Bros., Inc.	9-14-73	15%	\$ 459,314	\$ 413,241	Field Act
J Eugene McAteer High School (Diamond Heights) (3609) Wire Mesh Enclosures Anchor Post Products Inc. of California	11-21-73	99%	\$ 17,677	\$ 15,750	District
Alvarado School (3534-R) Reconstruction DeNarde Const. Co.	12-21-73	73%	\$ 769,000	\$ 504,454	Field Act
James Denman Jr. High School Shop Renovation (3637) Transwestern Const., Inc.	1-16-74	4-9-74	\$ 3,750	\$ 3,750	District
Board of Education (3661) Room 209 - Carpeting Floor Styles Commercial Corporation	4-19-74	0	\$ 1,090	0	District

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-2 MISC. ALTERATIONS (continued)					
West Portal School (3627) New 4 Classroom Bldg. Mapco Const. Corp.	4-19-74	30%	\$ 184,000	\$ 33,349	Field Act
Aptos Jr. High School (3628) Reconstruction-Phase II DeNarde Const. Co.	4-24-74	0	\$ 523,150	0	Field Act
Lafayette School (3588) Reconstruction DeNarde Const. Co.	5-24-74	9%	\$1,091,000	\$ 91,341	Field Act
City College of S.F. (3665) Alterations of Relocatable Bldgs. to a Radiologic Tech. Laboratory Transwestern Const. Co.	5-3-74	0	\$ 44,721	0	S.F. Comm. College
Pelton Jr. High School (3673) Carpeting Don Ermann Associates	5-24-74	0	\$ 1,069	0	District
Dudley Stone School (3536) Reconstruction Arntz Bros., J.W. & Sons, Inc., & Arntz Contracting Co., a Joint Venture	5-29-74	0	\$1,005,000	0	Field Act

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-2 MISC. ALTERATIONS (continued)					
Galileo High School (3602) Reconstruction of Gymnasium Bldg. Nibbi Bros., Inc.	5-29-74	0	\$ 299,000	0	Field Act
Horace Mann Jr. High School Phase I- Reconst. (3618) DeNarde Const. Co.	5-29-74	0	\$1,329,000	0	Field Act
Grant School (3681) Demolition Peralta & Son Excavators	6-12-74	0	\$ 39,870	0	Field Act
Unity Jr. High School (3679) Modifications to Bldg. Nibbi Bros., Inc.	6-19-74	0	\$ 4,437	0	District
James Denman Jr. High School Alterations to Gym (3649-R) Bldg. & Portable Bleachers Transwestern Const. Co.	6-21-74	0	\$ 25,911	0	District
Abraham Lincoln High School Replacement of (3672) underground piping Broadway Plumbing Co.	6-26-74	0	\$ 81,790	0	District

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-2 MISC. ALTERATIONS (continued)					
Francisco Jr. High School Reconstruction (3647) Nibbi Bros., Inc.	6-26-74	0	\$ 583,883	0	Field Act
Woodrow Wilson High School Snack Bar (3684-R) Leon Carlen	6-26-74	0	\$ 4,938	0	District
Total Aggregate Value and Amount Expended			\$14,904,568	\$6,333,084	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
<b>A-4 ROOFING JOBS</b>					
John Swett School (3552) Roof Repairs Wm. J. Anderson	5-11-73	8-6-73	\$ 2,134	\$ 2,134	District
Sutro Annex (3543) Roof Repairs Robert J. Neilan & Son	5-11-73	8-2-73	\$ 2,358	\$ 2,358	District
Redding School (3555) Reroofing Wm. J. Anderson Roofing Co.	5-30-73	10-18-73	\$ 8,044	\$ 8,044	District
Ulloa School (3556) Roofing & Misc. Work Sunset Roofing Co.	5-30-73	9-25-73	\$ 3,770	\$ 3,770	District
Rooftop School (3569) (Pacific Heights School) Roofing & Misc. Work Western Roofing Service	6-13-73	9-21-73	\$ 5,767	\$ 5,767	District
LeConte School (3671) New Roofing Bender Roofing, Inc.	6-26-74	0	\$ 27,345	0	District
Total Aggregate Value and Amount Expended			\$ 49,418	\$ 22,073	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
<b>A-5 RESILIENT FLOORING</b>					
Various Children Centers (3667) Carpet Removal & New Resilient Flooring (Edison, Gough-Page, & Page-Broderick) James A Smith Co.	6-26-74	0	\$ 5,833	0	Child Care Centers
Total Aggregate Value and Amount Expended			\$ 5,833		

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-6 PAINTING					
Various Schools (3559) John McLaren & Excelsior R. P. Paoli & Co.	5-30-73	8-31-73	\$ 15,844	\$ 15,844	District
Bret Harte School (3563) Exterior Painting R. P. Paoli & Co.	5-30-73	8-31-73	\$ 9,375	\$ 9,375	District
Starr King School (3562) Exterior Painting R. P. Paoli & Co.	5-30-73	8-31-73	\$ 7,625	\$ 7,625	District
A. P. Giannini Jr. High School Exterior Painting (3561) Beck Bros.	6-13-73	9-7-73	\$ 17,810	\$ 17,810	District
Various Schools (3558) Douglas & Twin Peaks Exterior Painting D. Zelinsky & Son	6-13-73	8-31-73	\$ 10,869	\$ 10,869	District
Various Schools (3560) Painting - Spring Valley, Commodore Stockton D. Zelinsky & Sons, Inc.	6-13-73	8-31-73	\$ 19,895	\$ 19,895	District

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
A-6 PAINTING (continued)					
Page-Broderick Children's Center (3664) Exterior Painting & Misc. Alterations H.E. Rahlmann Co.	6-26-74	0	\$ 27,253	0	Child Care Centers
Total Aggregate Value and Amount Expended			\$ 108,671	\$ 81,418	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
<b>A-7 YARD PAVING</b>					
<b>Various Children Centers (3532-R)</b>					
Mission, Jefferson & Potrero Terrace Yard Drainage Tamal Const. Co.	3-30-73	6-5-73	\$ 7,458	\$ 7,458	Child Care Centers
<b>Various Schools-Series I (3567)</b>					
Resurfacing Yard Paving & Painting Game Lines Malott & Peterson-Grundy	7-6-73	8-31-73	\$ 26,814	\$ 26,814	District
<b>Various Schools-Series II (3568)</b>					
Resurfacing Yard Paving & Painting Game Lines Malott & Peterson-Grundy	7-6-73	11-5-73	\$ 37,637	\$ 37,637	District
<b>Frederick Burk School (3577)</b>					
Yard Paving & Game Lines Malott & Peterson-Grundy	7-25-73	10-5-73	\$ 6,035	\$ 6,035	District
<b>Various Schools (3686)</b>					
Yard Paving & Game Lines Malott & Peterson-Grundy	6-26-74	0	\$ 174,887	0	District
<b>Total Aggregate Value and Amount Expended</b>			<b>\$ 252,831</b>	<b>\$ 77,944</b>	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
<b>B-1 FIRE DEPARTMENT NEW CONSTRUCTION</b>					
<b>Fire Engine Co. #37 (3364)</b>					
Gen. Const. Nibbi Bros., Inc.	8-2-72	2-1-74	\$ 502,463	\$ 185,663	Fire Dept. Bond
<b>S.F. Fire Dept. Headquarters Building (3531)</b>					
Install Memorial Plaque Vermont Marble Co.	3-2-73	10-18-73	\$ 10,871	\$ 10,871	Fire Dept.
<b>Engine Co. No. 3 (3486-R)</b>					
Gen. Const. Stenmake Const. Co.	2-6-74	2%	\$ 549,940	\$ 16,969	Fire Dept.
<b>Engine Co. No. 1 (3591)</b>					
Gen. Const. Perini Corporation	5-10-74	0	\$1,022,000	0	Fire Dept.
<b>Total Aggregate Value and Amount Expended</b>			<b>\$2,085,274</b>	<b>\$ 213,503</b>	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
B-2 FIRE DEPARTMENT - ALTERATIONS					
Engine Co. No. 33 (3519)					
Gen. Construction					
Tyson and Bozzo Const.	5-2-73	5-8-74	\$ 270,421	\$ 270,421	Bond
Total Aggregate Value and Amount Expended			\$ 270,421	\$ 270,421	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
C-1 SAN FRANCISCO HOSPITAL					
S.F. Medical Center (3300-R)					
Hospital Building					
The Wm. Simpson					
Construction Co.	6-9-71	72%	\$29,994,574	\$6,825,362	S.F. Medical Center
S.F. General Hospital (3477)					
Microbiology Lab Air Condition					
Valley Sheet Metal Co.	5-31-72	5-4-73	\$ 13,346	\$ 13,346	General
S.F. General Hospital (3501)					
Addition to Emergency Facilities					
Building No. 1					
S.P.V. Construction, Inc.	8-30-72	1-18-74	\$ 56,530	\$ 5,520	General
S.F. General Hospital (3516)					
Emergency Work					
Alter. to X-Ray Dept.					
Bldg. No. 6					
S.P.V. Construction Co.	10-20-72	11-21-73	\$ 30,536	\$ 30,704	General
S.F. General Hospital (3523)					
Replacement of Air					
Washer - Bldg. #1					
Bruce Nickel	2-7-73	6-8-73	\$ 15,704	\$ 15,704	General
S.F. Medical Center (3513)					
Alterations to transfer					
Switchboard Service Bldg.					
Electrical Const. & Sales	2-16-73	6-29-73	\$ 7,488	\$ 7,488	S.F. Medical Center



## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
C-1 SAN FRANCISCO HOSPITAL (continued)					
S.F. General Hospital (3493) Ward Lavatories Florence Woodcraft Co.	5-18-73	1-18-74	\$ 14,585	\$ 14,585	General
S.F. General Hospital (3579) Security Screens South Wing Ward 54 Crown Iron Works	6-15-73	11-30-73	\$ 9,877	\$ 9,877	General
S.F. General Hospital (3581) New Partitions 3rd Floor S. Chr. Jorgensen	6-29-73	11-29-73	\$ 4,999	\$ 5,277	General
S.F. General Hospital (3446-R) Enclose Main Stairs Psychiatric Bldg. 90 A & P Construction Co.	11-28-73	70%	\$ 11,727	\$ 7,388	General
Total Aggregate Value and Amount Expended			\$30,159,366	\$6,935,251	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
C-2 LAGUNA HONDA HOSPITAL					
Laguna Honda Hospital (3414) Enclose Stairs A. J. Luna	1-10-73	3-25-74	\$ 37,900	\$ 20,845	General
Laguna Honda Hospital (3522) Smoke Barriers & Fire Doors M & H Construction Co.	3-16-73	99%	\$ 71,660	\$ 57,409	General
Laguna Honda Hospital (3498) Alterations to X-Ray Dept. Third Floor Bldg. M S. Chr. Jorgensen	5-16-73	6-6-74	\$ 12,345	\$ 12,345	General
Laguna Honda Hospital (3646) Range Hood Dry Chemical Fire Protection System Main Kitchen Firemaster	5-22-74	0	\$ 4,257	0	General
Laguna Honda Hospital (3669) Automatic Fire Sprinklers Bldgs. K and M & O Storage Pacific Automatic Sprinkler	5-5-74	0	\$ 6,945	0	General
Total Aggregate Value and Amount Expended			\$ 133,107	\$ 90,599	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date of %	Contract Amount	Amount Expended	Fund
C-3 HEALTH CENTER BUILDINGS					
Building at 444-Sixth St. (3570) Alterations Wm. McIntosh & Son	6-15-73	10-19-74	\$ 11,000	\$ 11,000	General
Building at 417 Gough St. (3573) Alterations M & H Construction Co.	6-22-73	3-22-74	\$ 50,892	\$ 50,892	General
Building at 1665 Mission St. (3571) Alterations Ground Flr. Wm. McIntosh & Son	6-22-73	3-6-74	\$ 59,500	\$ 59,500	General
Building at #10-29th St. (3542) Alterations Elbe Const. Co.	6-29-74	2-26-74	\$ 34,927	\$ 34,927	General
Building at 2335 Ocean Ave. (3574) Alterations Erbenraut & Summers	8-10-73	65%	\$ 62,305	\$ 27,806	General
Central Emergency Hospital (3643) Misc. Alterations Silva Const. Co.	4-5-74	0	\$ 5,070	0	General
Total Aggregate Value and Amount Expended			\$ 223,694	\$ 184,125	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
D - De YOUNG MEMORIAL MUSEUM					
DeYoung Memorial Museum (3583-R) Center of Asian Art and Culture Fire and Security Closure Leon Carlen	11-21-73	65%	\$ 8,100	\$ 4,635	General
Total Aggregate Value and Amount Expended			\$ 8,100	\$ 4,635	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
<b>E - YOUTH GUIDANCE CENTER</b>					
Youth Guidance Center (3596) Security Measures - Phase I Angelo F. Silva	10-10-73	4-30-74	\$ 5,493	\$ 5,493	General
Youth Guidance Center (3606) Security Measures - Phase II Transwestern Const., Inc.	12-12-73	5-31-74	\$ 24,239	\$ 24,239	General
Total Aggregate Value and Amount Expended			\$ 29,732	\$ 29,732	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
<b>F - CIVIC CENTER</b>					
Veterans Building (3545) Safety Controls for Boilers R. D. Miners Inc.	5-11-73	7-10-73	\$ 6,287	\$ 6,287	General
City Hall - Tax Collector's Office - Acoustical (3575) The Sono-Ceil Co.	6-1-73	9-18-73	\$ 3,733	\$ 3,733	General
City Hall - Tax Collector's Resilient Floor (3576) Covering B.T. Mancini Co., Inc.	6-13-73	10-11-73	\$ 2,791	\$ 2,791	General
City Hall - Room 160 (3564) Alterations Wm. McIntosh & Son	11-7-73	50%	\$ 51,527	\$ 30,087	General
War Memorial Opera House (3525) Recarpeting Conklin Bros., Inc.	3-1-74	98%	\$ 15,950	\$ 14,068	General
Veterans' Building (3644) Expansion of Existing Fire Alarm System Electrical Const. and Sales Corp.	3-20-74	6-10-74	\$ 8,492	\$ 8,492	General

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
F - CIVIC CENTER (continued)					
War Memorial Opera House (3662) New Cyclorama and Related Rigging Contractors Iron Works	4-19-74	99%	\$ 11,499	0	General
City Hall - Tax Collector's Office - New Interior (3676) Lighting Electrical Construction And Sales Corp.	6-7-74	0	\$ 9,664	0	General
Total Aggregate Value and Amount Expended			\$ 109,943	\$ 65,458	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
G - HALL OF JUSTICE					
Hall of Justice (3578) Security Measures for New Communications Facility A & P Construction, Inc.	6-20-73	11-21-73	\$ 5,111	\$ 5,111	General
Hall of Justice (3593) Traffic Bureau-1st Floor Misc. Alterations Ralph Goldenberg Inc.	8-31-73	12-12-73	\$ 4,984	\$ 4,984	General
Hall of Justice (3592) Security Measures-Phase I Police Dept. Communications Herbert Petersen & Sons	9-7-73	4-18-74	\$ 13,649	\$ 13,649	General
Hall of Justice (3607) Security Measures - Phase I Municipal & Superior Court Cornac	11-21-73	73%	\$ 45,400	\$ 28,602	General
Hall of Justice (3624) Security Screens for Transom Windows County Jail #1, 7th Flr. Crown Iron Works	12-19-73	6-6-74	\$ 4,402	\$ 4,402	General

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
G - HALL OF JUSTICE (continued)					
Hall of Justice (3641) Alterations for Security Traffic Control - Phase I Transwestern Const. Inc.	3-6-74	5-23-74	\$ 7,070	\$ 7,070	General
Total Aggregate Value and Amount Expended			\$ 80,616	\$ 63,818	

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
H - MISCELLANEOUS					
Candlestick Park Stadium (3180) Improvement & Expansion Phase II Williams & Burrows, Inc.	11-6-70	2-28-73	\$12,023,646	\$5,852,413	S.F. Stadium
Central & Southern Police Stations Security Features (3518) Florence Woodcraft Co.	2-2-73	6-7-73	\$ 8,576	\$ 8,576	General
Taraval Police Station (3520) Emergency Work - Security Monty W. Connery	3-16-73	11-9-73	\$ 14,827	\$ 14,827	General
Southeast Police Station (3538) Rehabilitation Thomas Scadden, Inc.	4-18-73	11-26-73	\$ 82,888	\$ 65,079	General
Park Police Station (3537) Emergency Rehabilitation Monty W. Connery	4-18-73	10-9-73	\$ 73,418	\$ 40,193	General
Northern Police Station (3551) Security Features H. E. Rahlmann Co.	6-20-73	4-12-74	\$ 53,042	\$ 53,042	General

## CURRENT CONTRACT DATA 1973-1974

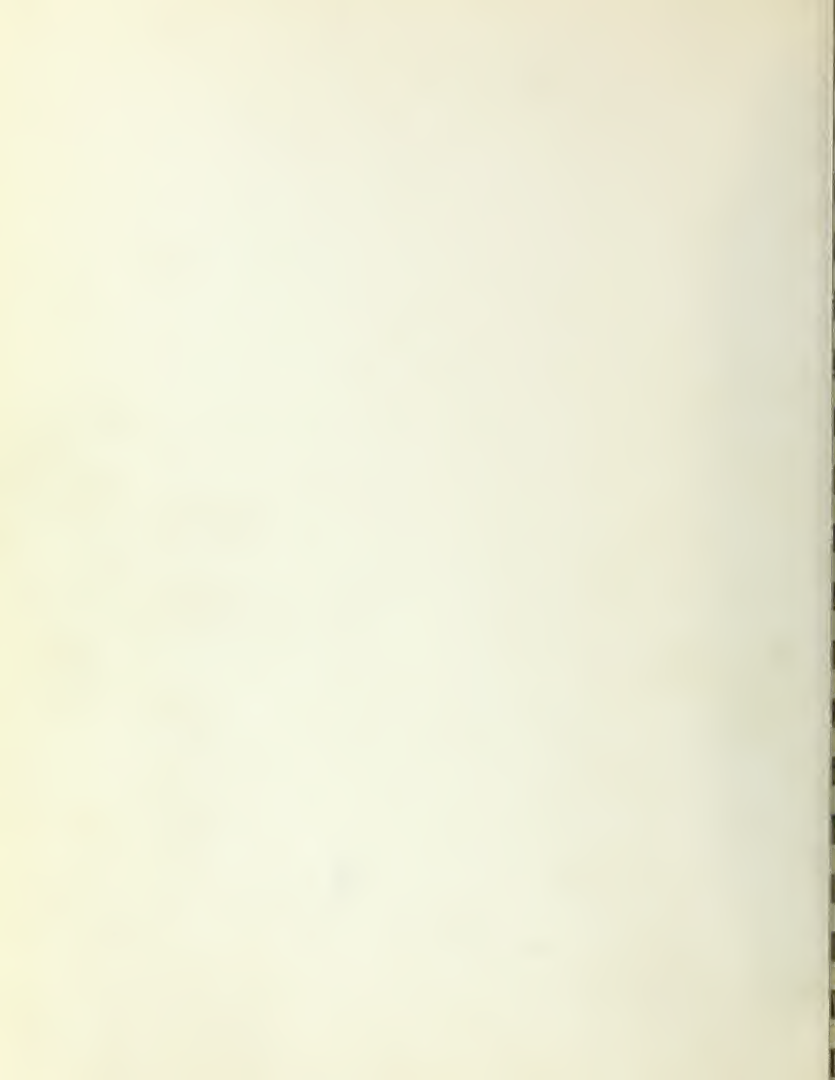
Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
H - MISCELLANEOUS (continued)					
Mission Police Station (3580) Security Measures Monty W. Connery	6-29-73	2-15-74	\$ 15,721	\$ 15,721	General
S.F. Zoological Gardens (3448) New Animal Hospital & Service Bldg. Modifications Mission Contractors J.V.	8-10-73	53%	\$ 407,000	\$ 187,798	General
Gilman Recreation Building Rehabilitation (3587) H. A. Zipperle Inc.	8-24-73	12-21-73	\$ 29,072	\$ 29,072	General
Twin Peaks Communications Towers - Security (3601) Measures Transwestern Const., Inc.	10-17-73	1-11-74	\$ 10,214	\$ 10,214	General
Candlestick Park Stadium (3625) Roll-up Doors Pacific Rolling Door Co.	11-21-73	2-20-74	\$ 8,929	\$ 8,929	S.F. Stadium
Candlestick Park Stadium (3626) Misc. Waterproofing Malott & Peterson-Grundy	11-23-73	3-20-74	\$ 28,757	\$ 28,757	S.F. Stadium

## CURRENT CONTRACT DATA 1973-1974

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended	Fund
H - MISCELLANEOUS (continued)					
Golden Gate Park Police Stables Security Measures (3608) Leon Carlen	11-28-73	5-16-74	\$ 8,204	\$ 8,204	General
Candlestick Park Stadium (3631) Pavement Sealer Pacific Asphalt Maintenance, Inc.	12-19-73	4-15-74	\$ 4,200	\$ 4,200	S.F. Stadium
Richmond Police Station (3550) Security Measures Mapco Const. Corp.	2-15-74	70%	\$ 36,440	\$ 22,549	General
Ingleside Police Station (3565) Security Features William McIntosh & Son	2-20-74	7-11-74	\$ 25,287	\$ 25,287	General
Joseph Lee Recreation Center (3638) Rehabilitation Wm. McIntosh & Son	5-29-74	0	\$ 93,800	0	General
North Point Water Pollution Control Plant (3648-R) Misc. Interior Painting Orrell-Keefe, Inc.	5-31-74	0	\$ 58,580	0	General













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